

CATALOG No. 10

"Always Reliable"
Plumbers' Tools

MANUFACTURED BY

OTTO BERNZ CO., Inc.

17-37 ASHLAND STREET

NEWARK, N. J., U. S. A.

Established 1876

Incorporated 1923

OFFICE AND WORKS OF

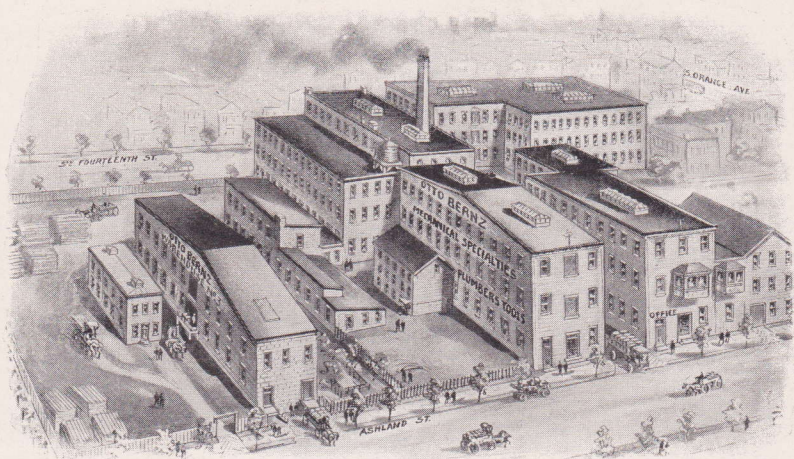
OTTO BERNZ CO., INC.

MANUFACTURERS OF

TORCHES, FURNACES, BRAZIERS,

AND

PLUMBERS' TOOLS



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NEWARK, N. J., U. S. A.

ESTABLISHED 1876

INCORPORATED 1923



MR. OTTO BERNZ
President and Treasurer

Founder in 1876

Foreword

This catalog illustrates the full "Always Reliable" line of plumbers' tools. These articles are manufactured from the best materials obtainable and by skilled workmen, therefore, are fully guaranteed as to quality and workmanship.

In addition to the plumbers' tools illustrated herein, we also manufacture the complete line of "Always Reliable" torches and furnaces. Please write for the catalog illustrating and describing these articles.

The goods referred to above have been manufactured by us since 1876. Since that time we have built up a wonderful reputation on quality. Due to this reputation, we have year by year increased our sales so that today we are the largest manufacturers in our line.

A large stock is usually carried on hand which enables prompt shipments on all of the articles we manufacture. Buyers will readily acknowledge there is a great saving of time and freight charges caused by placing orders with us due to the large variety which we are prepared to furnish.

OTTO BERNZ CO., INC.

ALPHABETICAL INDEX

	Page		Page
Air Gauges	39	Cold Chisels	16
Augers:		Columns, Mercury	39-40
Closet	34	Combination Pliers:	
Gas Fitters' and Mud.....	6	Bent Nose	37
Bags, Tool:		Regular	36
Electricians'	50	Side Cutting	37
Plumbers'	52-53	Compasses, Plain	23
Basin Wrenches	57	Compass Saws	41
Belt Punches	7	Coppers, Soldering	46
Bending Forms	6	Cutters:	
Bending Pins	6	Gauge Glass	59
Bending Springs, Pipe.....	6-7	Lead Pipe	35
Bent Nose Pliers	37	Washer	54-55
Bibb Seat Dressers	9	Diamond Nose Chisel.....	15
Bibb Seat Dresser Cutters.....	9	Dividers, Wing	56
Bits for Braces	10	Double Calipers	11
Bits, Expansive	24	Double Edge Saws	41
Blow Pipes:		Dressers:	
Gas and Air	8	Bibb Seat	9
Mouth	7	Wood	23
Bobs, Plumb	35	Drift Plugs	23
Bolts, Closet	20	Eight Hooks	19
Borers, Tap	47	Elbows, Rubber Extension.....	24
Bossing Sticks	8	Ether Cock	39
Braces	10	Expanding Plier	37
Brick Chisels	16	Expansive Bits	24
Brushes, Soil	45	Files	24
Burner Pliers	36	File Handle	25
Calipers:		Firmer Chisels	16
Double	11	Firmer Gouges	17
Inside	11	Floor Chisels	17
Outside	11	Force Cups	34
Wing	12	Force Pumps:	
Candle Holder	10	Gas Main	38
Cape Chisels	15	Regular	38
Caulking Chisels:		Forms, Bending	6
Corner	14	Furnace, Charcoal	25
Left Hand	13	Gas Fitters' Augers	6
Regular	13	Gas Fitters' Cement	12
Right Hand	13	Gasket Chisels	14
Stub	13	Gas Pliers	37
Ceiling Irons	12	Gauge Glass Cutter	59
Cement, Gas Fitters'	12	Gauges, Air	39
Chains	18	Gimlets	25
Chain Stays	19	Glass Cutter Attachments for Rose	
Charcoal Furnace	25	Washer Cutters	55
Chipping Knives	12	Glass, Looking	30
Chisels:		Gouges:	
Brick	16	Firmer	17
Cape	15	Wood	17
Caulking, all kinds	13-14	Grease, Rosin and Flour Boxes....	26
Cold	16	Guides, Closet Handle	27
Diamond Nose	15	Gutter Strainers	26
Firmer	16	Hack Saw Frames	42
Floor	17	Hack Saw Blades	42
Gasket	14	Half Round Nose Chisel	15
Half Round Nose	15	Hammers:	
Picking	15	Machinists'	28
Round Nose	15	Riveting	28
Spring Packing	14	Handle Guides, Closet.....	27
Wood	16	Hooks:	
Yarning	14	Eight or S	19
Cleaners, Pipe	33	Measuring Tape	59
Closet Augers	34	Pot	36
Closet Bolts	20	Shave	43
Closet Pulls	21-22	Hose Attachments	26
Closet Screws	20	Inside Calipers	11
Cloths, Wiping	56		
Cock Hole Covers	23		

ALPHABETICAL INDEX—Continued

	Page		Page
Irons:		Round Nose Chisel.....	15
Caulking	13-14	Rules	41
Ceiling	12	Runners, Joint	29
Kinking	17	Saddlers' Punches	7
Round	40	Sand Plugs	41
Soldering	46	Saws:	
Throat	17	Compass	41
Joint Runners	29	Double Edge	41
Kinking Iron	17	Hack	42
Knives, Chipping	12	Single Edge	42
Ladles, Melting	29-59	Screw Drivers	43
Looking Glass	30	Screw Driver Handles	43
Machinists' Hammers	28	Screws, Closet	20
Mallet	30	Shave Hooks	43
Measuring Tapes	30	Shave Hook Blades.....	43
Measuring Tape Hook	59	S Hooks	19
Melting Ladles	29-59	Side Cutting Pliers	37-38
Mercury Columns	39-40	Side Edgers	44
Metal Pots	35	Single Edge Saws.....	42
Monkey Wrenches	57	Smoke Testing Machines.....	44
Moulds:		Snips, Tinnners'	51
Pig Lead	31	Soil Brushes	45
Strap Solder	31	Soil Cups	45
Tack	31-32	Soil, Prepared	45
Mud Augers	6	Soldering Coppers	46
Oil Cans	33	Soldering Copper Handle.....	46
Outside Calipers	11	Solder Pots	35
Packing Chisels	14	Split Links	19
Picking Chisel	15	Spring Packing Chisels.....	14
Pig Lead Moulds.....	31	Steamer, Thawing	47
Pins:		Stillson Wrenches	57
Bending	6	Strainers, Gutter	26
Turn	50	Strap Solder Moulds	31
Pipe Bending Springs.....	6-7	Strap Wrenches	58
Pipe Cleaners	33	Straps for Strap Wrenches	58
Pipe Cutters, Lead.....	35	Strap for Pipe Vise	46
Pipe Vise	46	Tack Moulds	31-32
Pipes, Blow:		Tap Borers	47
Gas and Air	8	Tapes, Measuring	30
Mouth	7	Testing Machines, Smoke.....	44
Pliers:		Testing Plugs	48-49
Burner	36	Testing Plug Rubbers.....	50
Combination, Bent Nose.....	37	Testing Plug Wrench	48
Combination, Regular	36	Testing Pump	39-40
Combination, Side Cutting	37	Thawing Steamer	47
Expanding	37	Throat Iron	17
Gas	37	Tinnners' Snips	51
Side Cutting, Regular	38	Tool Bags:	
Plugs:		Electricians'	50
Drift	23	Plumbers'	52-53
Sand	41	Tool Roll	53
Testing	48-49	Turn Pins	50
Plumb Bobs	35	Vise, Pipe	46
Plumbers' Friends	34	Vise Strap	46
Pot Hook	36	Washer Cutters	54-55
Pots:		Washers for Closet Bolts and Screws	20
Solder or Metal	35	Wing Calipers	12
Pouring	36	Wing Dividers	56
Pulls, Closet	21-22	Wiping Cloths	56
Pumps:		Wood Chisels	16
Force, Gas Main	38	Wood Gouge	17
Force, Regular	38	Wrenches:	
Testing	39-40	Basin	57
Punches, Belt or Saddlers'.....	7	Monkey	57
Rasps	25	Stillson	57
Rasp Handle	25	Strap	58
Riveting Hammers	28	Testing Plug	48
Rivet Sets and Headers.....	40	Wrench Straps	58
Round Irons	40	Yarning Chisels	14

NUMERICAL INDEX

Number	Page	Number	Page	Number	Page	Number	Page
1	6	59	19	120	31	179	46
2	6	60	19	121	31	180	46
3	6	61	20	122	31	181	46
4	6	62	20	123	32	182	46
5	6	63	20	124	32	183	46
6	6	64	20	125	32	184	47
7	6	65	20	126	33	185	47
8	7	66	20	127	33	186	47
9	7	67	20	128	33	187	48
10	7	68	20	129	34	188	48
11	7	69	21	130	34	189	48
12	8	70	21	131	34	190	49
13	8	71	21	132	35	191	49
14	8	72	21	133	35	192	49
15	8	73	21	134	35	193	49
16	9	74	21	135	36	194	50
17	9	75	22	136	36	195	50
18	9	76	22	137	36	196	50
19	10	77	22	138	36	197	51
20	10	78	22	140	37	198	51
21	10	79	22	141	37	199	51
22	10	80	22	142	37	200	52
23	11	81	23	143	37	201	52
24	11	82	23	144	38	202	52
25	11	83	23	145	38	203	52
26	12	84	23	146	38	204	53
27	12	85	23	147	39	205	53
28	12	86	23	148	39	206	53
29	12	87	24	149	40	207	53
30	13	88	24	150	40	208	54
31	13	89	24	151	40	209	54
32	13	90	24	152	41	210	54
33	13	91	25	153	41	211	55
34	14	92	25	154	41	212	55
35	14	93	25	155	41	213	55
36	14	94	25	156	41	214	55
37	14	96	25	157	41	215	55
38	15	97	26	158	42	216	55
39	15	98	26	159	42	217	55
40	15	99	26	160	42	218	55
41	15	100	26	161	42	219	55
42	15	101	27	162	43	220	56
43	16	102	27	163	43	221	56
44	16	103	27	164	43	222	56
45	16	104	27	165	43	223	56
46	16	105	28	166	43	224	56
47	17	106	28	167	43	225	57
48	17	107	28	168	43	226	57
49	17	108	28	169	43	227	57
50	17	109	29	170	43	228	57
51	17	110	29	171	44	229	57
52	18	111	29	172	44	230	58
53	18	113	30	173	45	231	58
54	18	114	30	174	45	232	58
55	18	115	30	175	45	233	58
56	19	116	30	176	45	234	59
57	19	118	31	177	45	235	59
58	19	119	31	178	46	236	59

GAS FITTERS' OR MUD AUGERS

No. 1



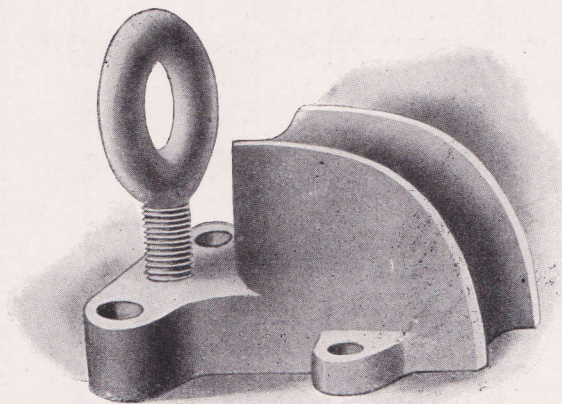
Made of a special crucible steel especially adapted for augers.

Twist 6" to 8" long. Always furnished with straight round shank about 12" long, unless otherwise ordered. Extra charge made for square end.

Auger Size	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"
Pipe Size	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"
Weight, per doz..	12 lbs.	18 lbs.	20 lbs.	22 lbs.	24 lbs.	27 lbs.	42 lbs.	44 lbs.	48 lbs.	55 lbs.

BENDING FORMS

No. 2



Number.....	1	2
Weight, each.....	12 lbs.	22 1/2 lbs.

Made from malleable iron with the exception of the eye bolt, which is wrought iron.

BENDING PINS

No. 3



No. 5



No. 4



No. 6



These articles are made from round steel.
 Length 13"

Size of Steel.....	1/2"	5/8"
Weight, per dozen.....	12 lbs.	15 lbs.

REGULAR PIPE BENDING SPRINGS

No. 7



Made from spring wire of the correct temper to prevent kinking.

	Length 23"		
Size.....	1"	1 1/4"	1 1/2"
Weight, per dozen.....	21 1/2 lbs.	31 lbs.	41 lbs.

PIPE BENDING SPRINGS WITH IRON PIPE CONNECTION

No. 8



Made from spring wire of the correct temper to prevent kinking. Ends are grey iron.

Length $24\frac{1}{2}$ "

Size.....	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"
Weight, per dozen.....	39 lbs.	51 lbs.	72 lbs.

BELT AND SADDLERS' PUNCHES

No. 9



Made from planished steel. The barrel of this style punch is swaged and the slot is milled out.

Number.....	1 to 6	7 to 9	10 to 12	13 and 14	15 and 16
Weight, per dozen.....	1 lb.	$1\frac{1}{4}$ lbs.	$1\frac{1}{2}$ lbs.	$2\frac{1}{2}$ lbs.	$3\frac{1}{4}$ lbs.

PLAIN BLOW PIPES

No. 10



Made entirely of brass.

Size.....	8"	9"	10"	11"	12"
Weight, per dozen.....	5 oz.	6 oz.	7 oz.	8 oz.	9 oz.

BLOW PIPES WITH BALL

No. 11

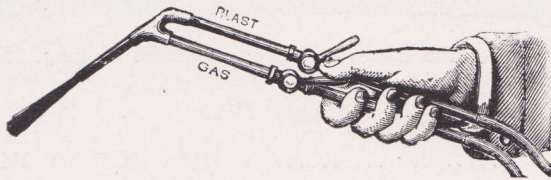


Made entirely of brass.

Size.....	8"	9"	10"	11"	12"
Weight, per dozen.....	5 oz.	6 oz.	7 oz.	8 oz.	9 oz.

GAS AND AIR BLOW PIPES FOR BRAZING

No. 12



Air jet $\frac{3}{16}$ ", Gas opening $\frac{7}{16}$ ", for $\frac{3}{8}$ " gas pipe. Weight, each 10½ oz.

No. 13

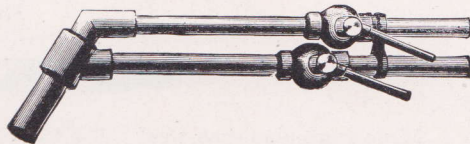


Air jet $\frac{5}{16}$ "

Gas opening $\frac{5}{8}$ "

For $\frac{1}{2}$ " gas pipe

No. 14



Air jet $\frac{3}{8}$ "

Gas opening 1"

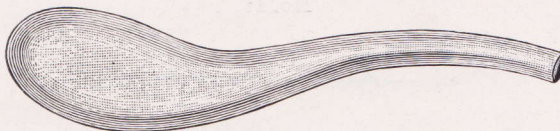
For $\frac{3}{4}$ " gas pipe

Number.....	13	14
Weight, each.....	1¾ lbs.	1¾ lbs.

These blow pipes are made of seamless brass tubing and have cast brass fittings.

BOSSING STICKS

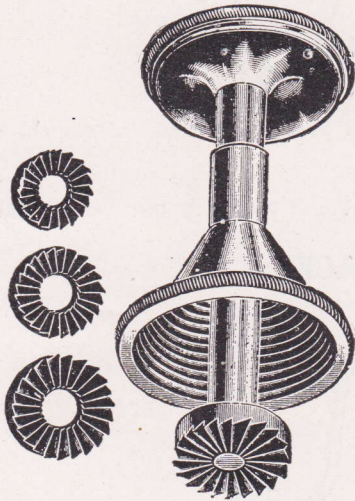
No. 15



Kind.....	Dogwood	Boxwood	Lignum Vitae
Weight, per dozen.....	13 lbs.	14 lbs.	17 lbs.

BIBB SEAT DRESSERS

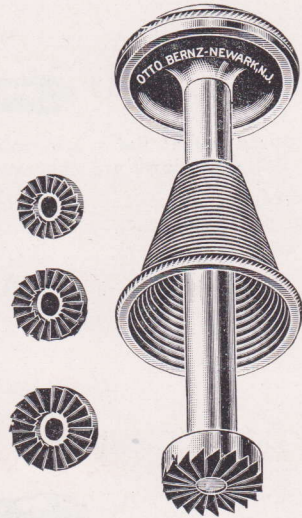
No. 16



Regular style with cone threaded on inside only.

Handle and cone are made of cast brass. Stem is steel. All parts are heavily nickel plated.

No. 17



Double style with cone threaded on inside and outside.

Handle and cone are made of cast brass. Stem is steel. All parts are heavily nickel plated.

Each bibb seat dresser is furnished with four cutters made of best tool steel.

Style.....	Regular	Double
Weight, per dozen.....	9 lbs.	9 lbs.

CUTTERS FOR BIBB SEAT DRESSERS

No. 18

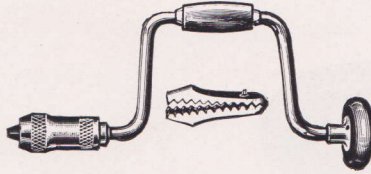
Diameter.....	$\frac{9}{16}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "
Size of bibb.....	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "
Weight, per dozen.....	3 oz.	5 oz.	6 oz.	10 oz.

Larger sizes made to order

Made of best tool steel.

PLAIN BRACES

No. 19

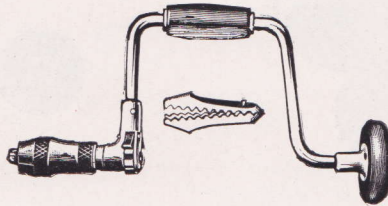


Exposed metal parts are polished. Head and handle are made of stained hardwood. Alligator jaws are cast steel.

Size, sweep.....	8"	10"	12"
Weight, per dozen.....	15½ lbs.	21 lbs.	23 lbs.

RATCHET BRACES

No. 20



Exposed metal parts are polished. Head and handle are made of stained hardwood. Alligator jaws are cast steel.

Size, sweep.....	8"	10"	12"
Weight, per dozen.....	19½ lbs.	25 lbs.	27 lbs.

BITS FOR BRACES

No. 21



Made of steel especially adapted for this purpose.

Size.....	¼"	⅜"	½"	⅝"	¾"	⅞"	1"
Weight, per doz.	1 lb.	1½ lbs.	2⅜ lbs.	2¾ lbs.	4 lbs.	5 lbs.	7 lbs.
Size.....	1⅛"	1¼"	1⅜"	1½"	1⅝"	1¾"	1⅞"
Weight, per doz.	8¾ lbs.	10½ lbs.	11¾ lbs.	16⅜ lbs.	16⅝ lbs.	17 lbs.	17¼ lbs.
							30 lbs.

CANDLE HOLDER

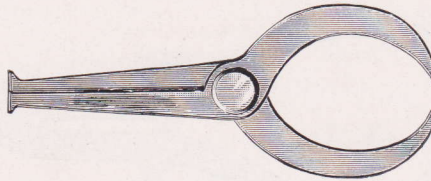
No. 22



Shank is made of steel, and holder is brass. Weight, per dozen 4 lbs.

DOUBLE CALIPERS

No. 23

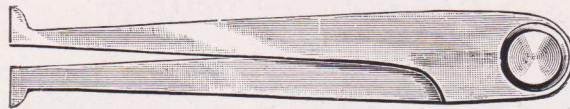


Made from sheet steel. Extra heavy washers are used which make firm, reliable joints.

Size.....	3"	4"	5"	6"
Weight, per dozen.....	$\frac{1}{2}$ lb.	$\frac{1}{2}$ lb.	1 $\frac{1}{4}$ lbs.	1 $\frac{1}{2}$ lbs.

INSIDE CALIPERS

No. 24

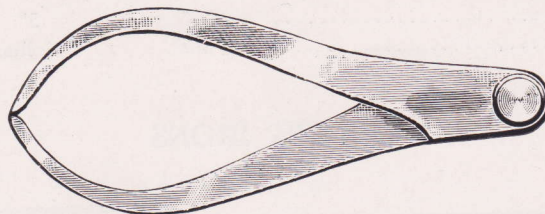


Made from sheet steel. Extra heavy washers are used which make firm, reliable joints.

Size.....	2 $\frac{1}{2}$ "	3"	4"	5"	6"	7"
Weight, per dozen.....	$\frac{3}{8}$ lb.	$\frac{1}{2}$ lb.	$\frac{3}{4}$ lb.	1 $\frac{1}{8}$ lbs.	1 $\frac{3}{4}$ lbs.	2 $\frac{1}{2}$ lbs.
Size.....	8"	9"	10"	12"	15"	18"
Weight, per dozen.....	3 lbs.	3 $\frac{5}{8}$ lbs.	4 $\frac{7}{8}$ lbs.	7 $\frac{1}{2}$ lbs.	9 lbs.	10 lbs.

OUTSIDE CALIPERS

No. 25

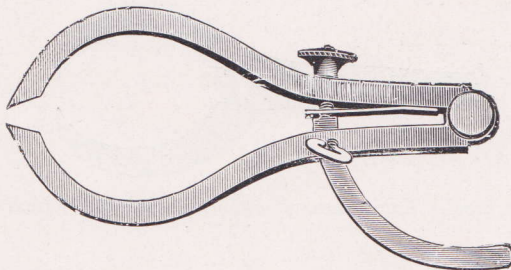


Made from sheet steel. Extra heavy washers are used which make firm, reliable joints.

Size.....	2 $\frac{1}{2}$ "	3"	4"	5"	6"	7"
Weight, per dozen.....	$\frac{1}{2}$ lb.	$\frac{1}{2}$ lb.	$\frac{3}{4}$ lb.	1 $\frac{1}{4}$ lbs.	2 lbs.	2 $\frac{1}{2}$ lbs.
Size.....	8"	9"	10"	12"	15"	18"
Weight, per dozen.....	3 lbs.	4 lbs.	5 $\frac{1}{4}$ lbs.	8 $\frac{1}{4}$ lbs.	10 $\frac{1}{2}$ lbs.	11 lbs.

WING CALIPERS

No. 26



Made of tool steel. Extra heavy washers are used which make firm, reliable joints.

Size.....	6"	8"	10"	12"
Weight, per dozen.....	3½ lbs.	4¾ lbs.	8¼ lbs.	10¾ lbs.

GAS FITTERS' CEMENT

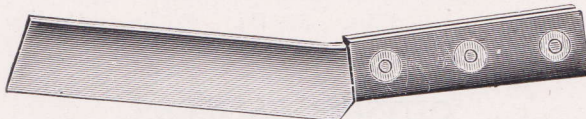
No. 27



Weight, per bar 1 lb.

CHIPPING KNIVES

No. 28



Blade is made of a good steel which will give good service, and handle is leather.

Size.....	4½"	5"	6"
Weight, per dozen.....	5½ lbs.	5¾ lbs.	6 lbs.

CEILING IRONS

No. 29

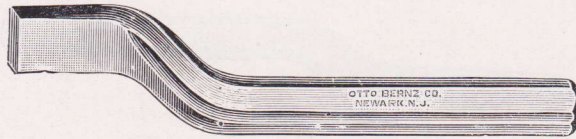


Made from good octagon steel.

Length.....	11"	16"
Size of steel.....	⅝"	⅝"
Weight, per dozen.....	16 lbs.	20 lbs.

STUB CAULKING CHISELS

No. 30



Made from good octagon steel.

Size of steel.....	8½"x½"	8½"x⅝"	8½"x¾"
Weight, per dozen.....	6 lbs.	9 lbs.	13½ lbs.

REGULAR CAULKING CHISELS

No. 31



Made from good octagon steel.

Size of steel.....	8½"x½"	8½"x⅝"	8½"x¾"
Weight, per dozen.....	6 lbs.	9 lbs.	13½ lbs.

RIGHT HAND, AND LEFT HAND CAULKING CHISELS

With Small Offset

No. 32



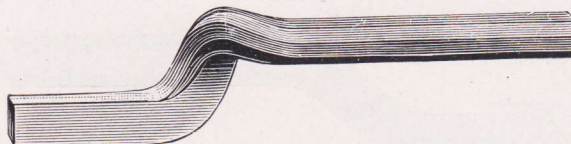
Made from good octagon steel.

Size of steel.....	8"x⅝"	8"x¾"
Weight, per dozen.....	9 lbs.	13½ lbs.

RIGHT HAND, AND LEFT HAND CAULKING CHISELS

With Large Offset

No. 33



Made from good octagon steel.

Size of steel.....	10"x⅝"	10"x¾"
Weight, per dozen.....	12 lbs.	16 lbs.

YARNING CHISELS

No. 34

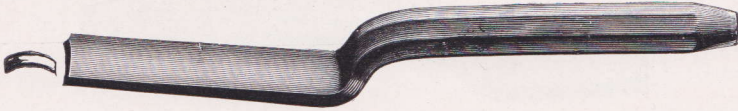


Made from good octagon steel.

Size of steel.....	$\frac{1}{2}$ "x10"	$\frac{1}{2}$ "x15"	$\frac{5}{8}$ "x10"	$\frac{5}{8}$ "x15"	$\frac{3}{4}$ "x10"	$\frac{3}{4}$ "x15"
Weight, per dozen.....	6 lbs.	9 lbs.	9 lbs.	12 lbs.	12 lbs.	15 lbs.

LONG GASKET CHISELS

No. 35



Made from good octagon steel.

Size of steel.....	9"x $\frac{5}{8}$ "	9"x $\frac{3}{4}$ "
Weight, per dozen.....	8 lbs.	10 lbs.

SPRING PACKING CHISELS

No. 36

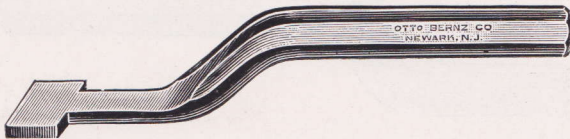


Made from best $\frac{1}{2}$ " octagon tool steel.

Size.....	12"	18"
Weight, per dozen.....	6 lbs.	9 lbs

CORNER CAULKING CHISEL

No. 37



Made from good $\frac{3}{4}$ " octagon steel.

Length 10"	Weight, per dozen 12 lbs.
------------	---------------------------

CAPE CHISELS

No. 38



Made from best octagon tool steel.

Size of Steel.....	8½" x ½"	8½" x ⅝"	8½" x ¾"
Weight, per dozen.....	6 lbs.	9 lbs.	12 lbs.

ROUND NOSE CHISEL

No. 39



Made from best ¾" octagon tool steel.

Length 8½"

Weight, per dozen 12 lbs.

HALF ROUND NOSE CHISEL

No. 40



Made from best ¾" octagon tool steel.

Length 8½"

Weight, per dozen 12 lbs.

DIAMOND NOSE CHISEL

No. 41



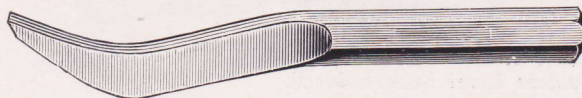
Made from best ¾" octagon tool steel.

Length 8½"

Weight, per dozen 12 lbs.

PICKING CHISEL

No. 42



Made from best ¾" octagon tool steel.

Length 8½"

Weight, per dozen 10½ lbs.

COLD CHISELS

No. 43



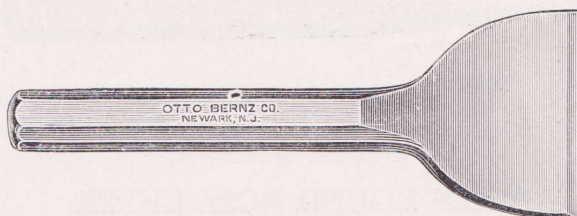
Made from best octagon tool steel.

Size of steel.....	1/2"	1/2"	3/4"	3/4"	7/8"	1"	1"
Length.....	5 1/2"	6"	7"	8"	8"	8"	9"
Width of cut.....	5/8"	5/8"	7/8"	7/8"	1"	1 1/8"	1 1/8"
Weight, per dozen.....	3 1/2 lbs.	4 lbs.	10 1/2 lbs.	12 lbs.	15 lbs.	19 1/2 lbs.	24 lbs.

Special sizes made to order.

BRICK CHISELS

No. 44



Made from best octagon tool steel.

Length 8 1/2"

Width of face.....	2 1/2"	3"	3 1/2"	4"
Weight, per dozen.....	9 lbs.	9 1/2 lbs.	10 1/2 lbs.	11 1/2 lbs.

WOOD CHISELS

No. 45



Made from best octagon tool steel.

Size of steel.....	5/8"	3/4"	3/4"
Length.....	10"	11"	12"
Width of cut.....	1"	1 1/2"	2"
Weight, per dozen.....	9 lbs.	14 lbs.	18 lbs.

TANGED FIRMER CHISELS

No. 46



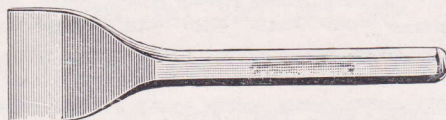
Made of crucible steel and fitted with a plain hickory handle. Always furnished with plain back unless bevel back ordered.

Length of blade 4" to 5"

Width of face.....	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Weight, per dozen.....	1 1/2 lbs.	2 1/2 lbs.	3 1/2 lbs.	4 1/2 lbs.	5 3/4 lbs.	8 lbs.

FLOOR CHISELS

No. 47



Made from best octagon tool steel.

Length.....	12"	15"	15"	15"	16"	16"
Width of face.....	1½"	2"	2½"	3"	3½"	4"
Weight, per dozen.....	18 lbs.	23 lbs.	25 lbs.	32 lbs.	45 lbs.	49 lbs.

WOOD GOUGE

No. 48



Made from best octagon tool steel.

Length 10½". Width of face 1". Weight, per dozen 21 lbs.

TANGED FIRMER GOUGES

No. 49



Made of crucible steel and fitted with a plain hickory handle. Always furnished with outside bevel unless inside bevel ordered.

Length of blade 4" to 5½"

Width of face.....	½"	¾"	7/8"	1"	1¼"	1½"
Weight, per dozen.....	3¾ lbs.	5 lbs.	5¼ lbs.	6 lbs.	8 lbs.	9 lbs.

KINKING IRON

No. 50



Made of ⅝" round steel.

Length 12" Weight, per dozen 12 lbs.

THROAT IRON

No. 51

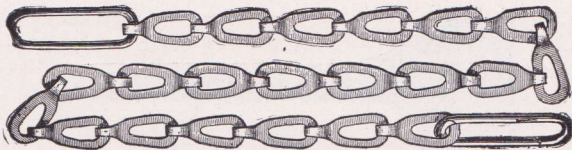


Made from good ¾" octagon steel.

Length 6" Weight, per dozen 6¾ lbs.

BRASS PLUMBERS' LINK CHAINS WITH SNAPS

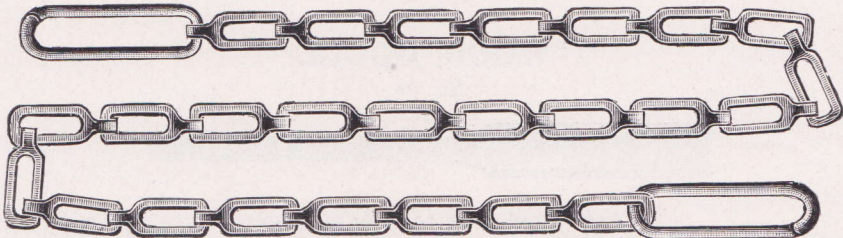
No. 52



See prices and weights listed below.

BRASS SAFETY LINK CHAINS WITH SNAPS

No. 53



See prices and weights listed below.

The above chains are packed in boxes, 12 lengths to each box.

BASIN CHAINS, 16½" LONG

Number.....	00	0	1
Price, per box.....	\$1.00	\$1.20	\$1.40
Weight, per box.....	¾ lb.	1½ lb.	¾ lb.

WASH TRAY CHAINS, 19¾" LONG

Number.....	00	0	1	2
Price, per box.....	\$1.15	\$1.35	\$1.60	\$1.95
Weight, per box.....	½ lb	¾ lb.	1 lb.	1¼ lbs.

BATH TUB CHAINS, 26¼" LONG

Number.....	00	0	1	2
Price, per box.....	\$1.40	\$1.65	\$2.00	\$2.45
Weight, per box.....	¾ lb.	1 lb.	1½ lbs.	1¼ lbs.

The following extras apply to the nickel plated finish: Basin chains, \$.05 dozen net; Wash tray chains, \$.06 dozen net; Bath tub chains, \$.07 dozen net.

BRASS AND STEEL PLUMBERS' LINK CHAIN

No. 54



See prices and weights listed below.

BRASS AND STEEL SAFETY LINK CHAIN

No. 55



See prices and weights listed below.

Number.....	00	0	1
Brass, price per hundred feet.....	\$4.00	\$5.00	\$6.25
Steel, price per hundred feet.....	\$3.00	\$3.50	\$4.00
Weight, per hundred feet.....	2 lbs.	2½ lbs.	3½ lbs...

The following extras apply to the nickel plated finish: Brass chain, \$.10 per hundred feet net; Steel chain, \$.20 per hundred feet net.

Above chain is put up on reels of 500 feet.

When chain is attached to closet pulls, a small charge is made for assembling.

BRASS SPLIT LINKS

No. 56



Large



Small

Size
Weight, per gross

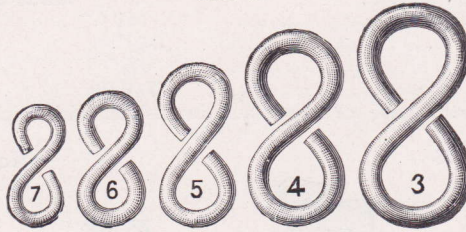
Large
1 lb.

Small
 $\frac{1}{2}$ lb.

An extra charge of \$.10 per gross, net, is made for the nickel plated finish.

S OR EIGHT HOOKS

No. 57



Number.....	1	2	3	4	5	6
Price, per gross.....	\$2.25	\$1.80	\$1.50	\$1.30	\$1.10	\$.90
Weight, per gross.....	2 lbs.	1 $\frac{3}{4}$ lbs.	1 $\frac{1}{4}$ lbs.	1 lb.	$\frac{3}{4}$ lb.	$\frac{1}{2}$ lb.
Number.....	7	$\frac{1}{2}$	1 $\frac{1}{2}$	2 $\frac{1}{2}$	3 $\frac{1}{2}$	
Price, per gross.....	\$.85	\$3.25	\$2.75	\$2.00	\$1.50	
Weight, per gross.....	$\frac{1}{4}$ lb.	3 $\frac{1}{4}$ lbs.	2 $\frac{1}{2}$ lbs.	1 $\frac{3}{4}$ lbs.	1 $\frac{1}{4}$ lbs.	

The above prices apply only to the brass finish.

The following extras apply to the nickel plated finish:

Nos. 1, 2, $\frac{1}{2}$, 1 $\frac{1}{2}$, 2 $\frac{1}{2}$ —\$.12 gro. net.

Nos. 3, 4, 5, 6, 7, 3 $\frac{1}{2}$ —\$.08 gro. net.

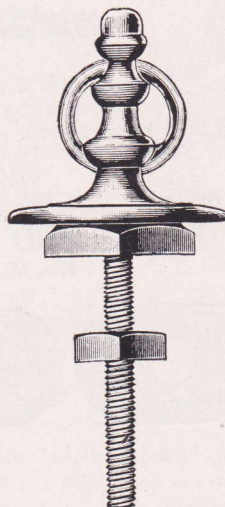
CHAIN STAYS

No. 58



Made of stamped sheet brass and turned brass rod, heavily nickel plated. The threaded end and nut are furnished in plain brass.

No. 59



Made of cast brass, heavily nickel plated. The threaded end and nut are furnished in plain brass.

No. 60



Made of cast brass, heavily nickel plated. The threaded end and nut are furnished in plain brass.

Number.....	
Weight, per gross.....	

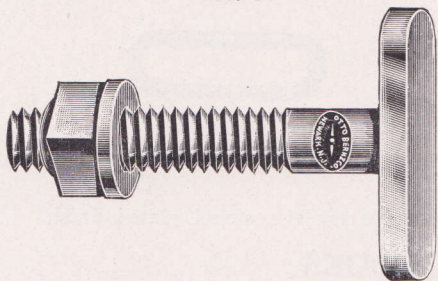
58
9 lbs.

59
18 lbs.

60
24 lbs.

CLOSET BOLTS

No. 61

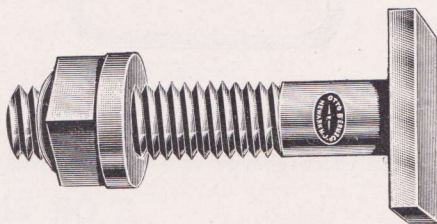


Made of cast brass.

Number.....
 Length under head.....
 Diameter.....
 Weight, per M.....

61
 $1\frac{1}{2}"$
 $\frac{5}{8}"$
 $57\frac{1}{2}$ lbs

No. 62

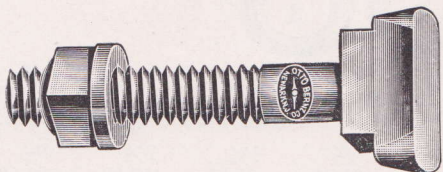


Made of cast brass.

62
 $1\frac{3}{8}"$
 $\frac{5}{8}"$
 47 lbs.

All bolts, unless otherwise ordered, are furnished with nickel plated brass open square head.

No. 63



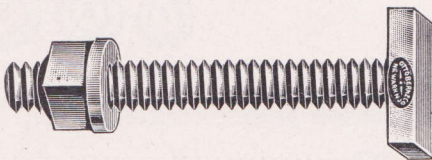
Made of cast brass.

Number.....
 Length under head.....
 Diameter.....
 Weight, per M.....

Made from brass rod with brass stamped base.
 63 64 64 64 64
 $1\frac{1}{2}"$ $1\frac{1}{2}"$ 2" $2\frac{1}{2}"$ 3"
 $\frac{1}{4}"$ $\frac{1}{4}"$ $\frac{1}{4}"$ $\frac{1}{4}"$ $\frac{1}{4}"$
 68 lbs. 40 lbs. 45 lbs. 50 lbs. 55 lbs.

All bolts, unless otherwise ordered, are furnished with nickel plated brass open square head.

No. 64



CLOSET SCREWS

No. 65



Length $2\frac{1}{2}"$, diameter $\frac{1}{4}"$, with nickel plated brass closed square head.

Screws furnished in brass, iron, and iron brass plated.

Kind	Brass	Iron	Iron brass plated
No. 65—Weight, per M.....	62½ lbs.	62½ lbs.	62½ lbs.
No. 66—Weight, per M.....	104 lbs.	104 lbs.	104 lbs.

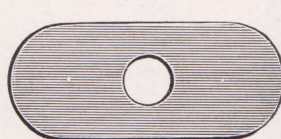
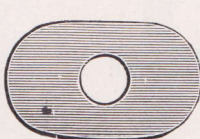
No. 66



Length $2\frac{1}{2}"$, diameter $\frac{1}{4}"$, with nickel plated brass closed hexagon head.

WASHERS FOR BOLTS AND SCREWS

No. 67



No. 68

Made of brass, heavily nickel plated.

Number.....	67	67	68	68
Size.....	$\frac{3}{4}"$	1"	$1\frac{1}{4}" \times \frac{3}{4}"$	$1\frac{3}{4}" \times \frac{3}{4}"$
Thickness.....	.020"	.025"	.025"	.025"
Weight, per M.....	$3\frac{1}{8}$ lbs.	$4\frac{3}{8}$ lbs.	$5\frac{5}{8}$ lbs.	$7\frac{1}{2}$ lbs.

CLOSET PULLS

No. 69



Made of wood.

Fitted with tight rubber ring. Rod through center. Can be furnished in any stained finish and in white enameled finish.

Number..... 69
 Weight, per dozen..... 1½ lbs.

No. 70



Made of wood.

Fitted with tight rubber ring. No rod through center. Can be furnished in any stained finish and in white enameled finish.

69

1½ lbs.

No. 71



Made of wood.

No rubber ring nor rod through center. Can be furnished in any stained finish and in white enameled finish.

70

1½ lbs.

71

1½ lbs.

No. 72



Made of wood.

Fitted with tight screw eye. Can be furnished in rosewood or ebony finishes.

Number..... 72
 Weight, per dozen..... ¾ lbs.

No. 73



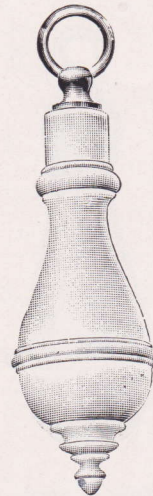
Made of wood.

Fitted with cast iron top. Can be furnished in rosewood or ebony finishes.

72

¾ lbs.

No. 74



Made of celluloid.

No rubber ring nor rod through center.

73

1½ lbs.

74

1½ lbs.

CLOSET PULLS

No. 75

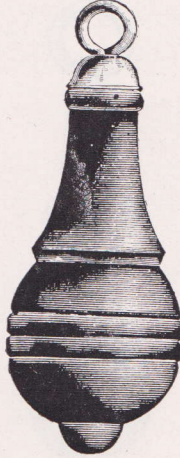


Made of wood.

Fitted with tight rubber ring. Rod through center. Can be furnished in any stained finish, and in white enameled finish.

Number.....	75
Weight, per dozen.....	1½ lbs.

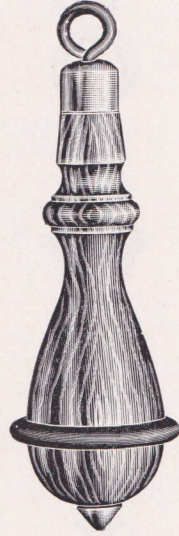
No. 76



Made of wood.

No rubber ring nor rod through center. Can be furnished in black or white enameled finishes.

No. 77



Made of wood.

Fitted with tight rubber ring. No rod through center. Can be furnished in any stained finish and in white enameled finish.

76	77
¾ lbs.	1½ lbs.

No. 78

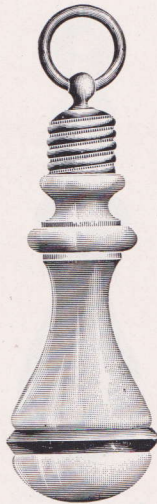


Made of wood.

Fitted with tight rubber ring. No rod through center. Can be furnished in any stained finish and in white enameled finish.

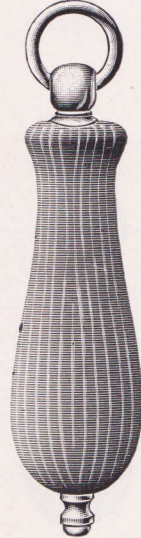
Number.....	78
Weight, per dozen.....	¾ lb.

No. 79



Made of crystal or opaque glass. Fitted with tight rubber ring. No rod through center.

No. 80



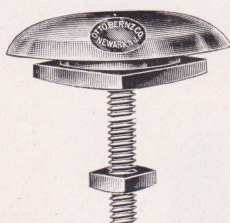
Made of wood.

No rubber ring. Rod through center. Can be furnished in any stained finish.

79	80
3¾ lbs.	1½ lbs.

COCK HOLE COVERS

No. 81



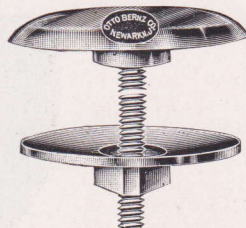
Head is made of cast brass. Threaded end and nut are also brass.

This style for basins.

Diameter of top $1\frac{1}{2}$ "

Number.....
 Weight, per gross.....

No. 82



Head and flange are made of cast brass. Threaded end is also brass.

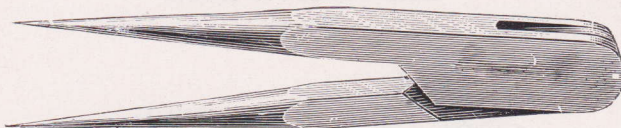
This style for bath tubs.

Diameter of top $1\frac{3}{4}$ "

81
 22½ lbs.
 82
 27 lbs.

PLAIN COMPASSES

No. 83

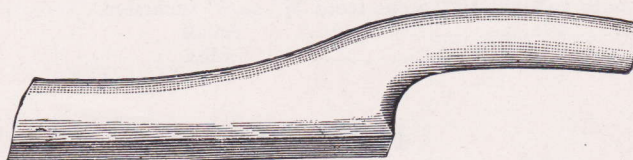


Made of tool steel. The joint is firm which assures accurate adjustments.

Size.....	3"	4"	5"	6"	7"	8"	9"	10"	12"
Weight, per doz.	1 lb.	1¼ lbs.	1½ lbs.	2¼ lbs.	2¾ lbs.	3¼ lbs.	5 lbs.	5¾ lbs.	7 lbs.

DRESSERS

No. 84



This is our standard dresser, measuring $13\frac{1}{4}$ " overall, 8" face, and $1\frac{7}{8}$ " wide.

Kind.....	Dogwood	Boxwood	Lignum Vitae
Weight, per dozen.....	11 lbs.	12 lbs.	13 lbs.

Larger sizes can also be furnished by us.

DRIFT PLUGS

No. 85



No. 86



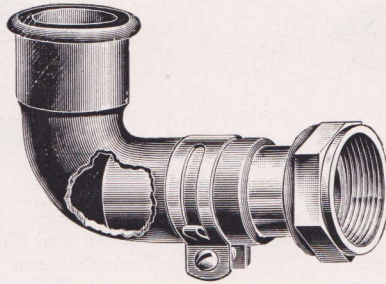
Made in all sizes up to and including 2".

Kind.....	Dogwood	Boxwood	Lignum Vitae
Weights vary according to diameters. Can be furnished on application.			

Larger sizes made to order.

RUBBER EXTENSION ELBOWS

No. 87

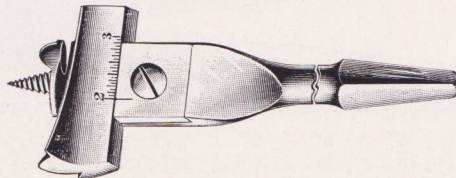


Threaded end is cast brass and is connected to stamped brass sleeve. Clamp and bolt are galvanized steel.

Size.....	1¼"	1½"	2"
Weight, per dozen.....	4½ lbs.	6¾ lbs.	10½ lbs.

EXPANSIVE BITS

No. 88



Made of a good grade of tool steel.

Small size furnished with two cutters to cut from ½" to 1½" inclusive. Large size furnished with two cutters to cut from ¾" to 3" inclusive.

Size.....	Small	Large
Weight, per dozen.....	4 lbs.	6 lbs.

FLAT FILES

No. 89



These files are made of a special file steel which will give satisfactory service.

Size.....	8"	10"	12"	14"
Weight, per dozen.....	3¼ lbs.	7½ lbs.	12½ lbs.	19¾ lbs.

HALF ROUND FILES

No. 90



These files are made of a special file steel which will give satisfactory service.

Size.....	8"	10"	12"	14"
Weight, per dozen.....	3½ lbs.	6¼ lbs.	10¾ lbs.	17¼ lbs.

FLAT WOOD RASPS

No. 91



These rasps are made of crucible steel especially adapted for the purpose.

Size.....	8"	10"	12"	14"
Weight, per dozen.....	3½ lbs.	7½ lbs.	12½ lbs.	20¼ lbs.

HALF ROUND WOOD RASPS

No. 92



These rasps are made of crucible steel especially adapted for the purpose.

Size.....	8"	10"	12"	14"
Weight, per dozen.....	3½ lbs.	6¾ lbs.	11¼ lbs.	17 lbs.

HANDLE FOR FILES AND RASPS

No. 93



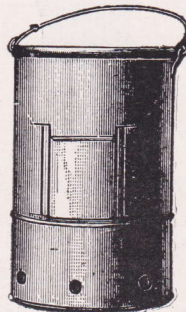
Regular wood style with steel ferrule.

Length 5½".

Weight, per dozen 1½ lbs.

CHARCOAL FURNACE

No. 94



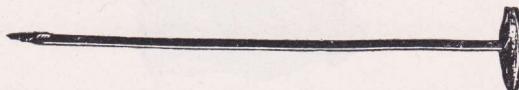
Made from 26 gauge sheet iron.

Size 14"x9"

Weight, per dozen 66 lbs.

GIMLETS

No. 96

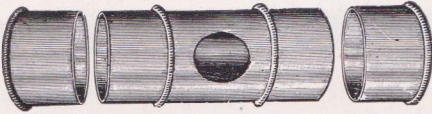


The bits are made of crucible steel. Fitted with a neat, varnished wood handle.

Size.....	18"	24"	30"	36"
Weight, per dozen.....	3 lbs.	5 lbs.	5¾ lbs.	6¾ lbs.

GREASE, ROSIN AND FLOUR BOXES

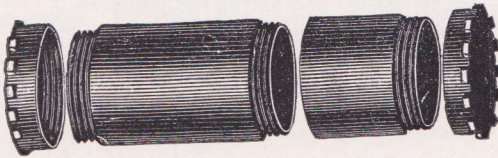
No. 97



Made of spun brass.

Size.....	Small	Medium	Large
Weight, per dozen.....	7 lbs.	8 lbs.	9 lbs.

No. 98

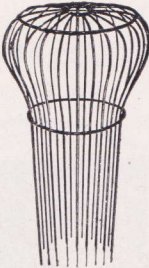


Made of cast brass

Size.....	Two part	Three part
Weight, per dozen.....	12 lbs.	19 lbs.

GUTTER STRAINERS

No. 99

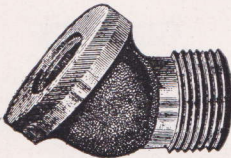


Made of galvanized iron wire.

Size.....	2"	3"	4"	5"	6"
Weight, per dozen.....	1 lb.	1½ lbs.	2½ lbs.	4¼ lbs.	7 lbs.

HOSE ATTACHMENTS

No. 100

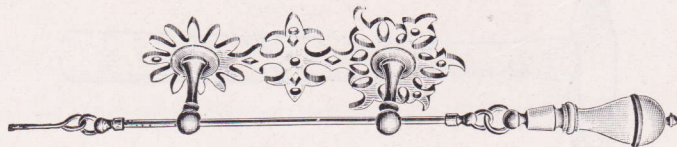


Made of cast brass, with threaded end. Cap is made from sheet brass.

Size.....	½"	5/8"
Weight, per dozen.....	4 lbs.	4½ lbs.

HANDLE GUIDES

No. 101



Guide plate is made of cast brass and posts are turned brass. Links are made from brass rod. All parts are heavily nickel plated.

Furnished with No. 69 white enameled closet pull and 4 one foot links to tank.

Weight, per dozen 18½ lbs.

No. 102

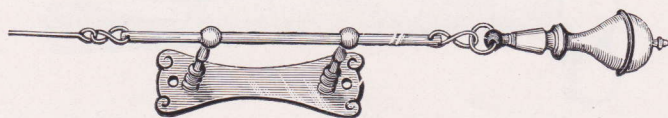


Guide plate is made of cast brass and posts are turned brass. Links are made from brass rod. All parts are heavily nickel plated.

Furnished with No. 69 white enameled closet pull and 4 one foot links to tank.

Weight, per dozen 16½ lbs.

No. 103



Guide plate is made of stamped sheet brass and posts are turned brass. Links are made from brass rod. All parts are heavily nickel plated.

Furnished with No. 69 white enameled closet pull and 4 one foot links to tank.

Weight, per dozen 11½ lbs.

The above guides can be furnished with any of the closet pulls shown on pages 21 and 22. Prices will be charged according to the pulls accepted.

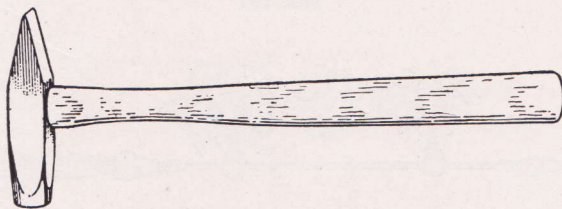
No. 104

No. 69 white enameled pull with five one foot N. P. brass links to tank (no guide plate). Links are stronger, neater and easier to keep clean than chain.

Weight, per dozen 5¼ lbs.

RIVETING HAMMERS

No. 105



Plain eye—Polished

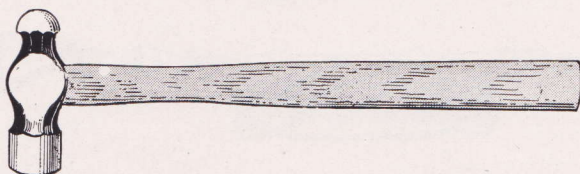
Heads are made of forged steel. Handles are made of hickory. Weights do not include handles.

Size.....	4 oz.	7 oz.	9 oz.	12 oz.	15 oz.	18 oz.
Weight, per dozen.....	5 lbs.	8 lbs.	9 lbs.	12 lbs.	15½ lbs.	18½ lbs.

MACHINISTS' HAMMERS

BALL PEIN

No. 106

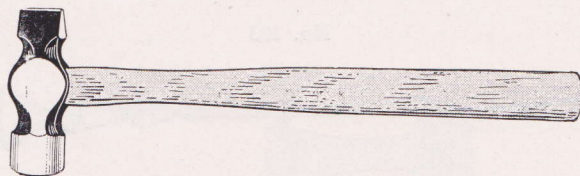


Heads are made of forged steel. Handles are made of hickory. Weights do not include handles.

Size.....	4 oz.	6 oz.	8 oz.	12 oz.	1 lb.	1¼ lbs.	1½ lbs.	1¾ lbs.	2 lbs.	2½ lbs.	3 lbs.
Weight, doz.	5lbs.	7lbs.	10lbs.	13lbs.	16½lbs.	21lbs.	23½lbs.	26½lbs.	30lbs.	38¼lbs.	45lbs.

STRAIGHT PEIN

No. 107

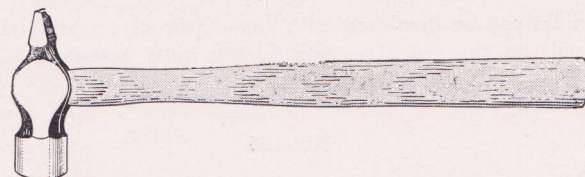


Heads are made of forged steel. Handles are made of hickory. Weights do not include handles.

Size.....	4 oz.	6 oz.	8 oz.	12 oz.	1 lb.	1¼ lbs.	1½ lbs.	1¾ lbs.	2 lbs.
Weight, per dozen.	5 lbs.	7 lbs.	10 lbs.	13 lbs.	16½ lbs.	21 lbs.	23½ lbs.	26½ lbs.	30 lbs.

CROSS PEIN

No. 108

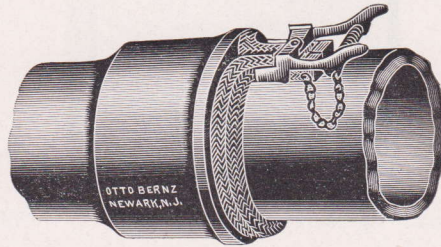


Heads are made of forged steel. Handles are made of hickory. Weights do not include handles.

Size.....	4 oz.	6 oz.	8 oz.	12 oz.	1 lb.	1¼ lbs.	1½ lbs.	1¾ lbs.	2 lbs.
Weight, per dozen.	5 lbs.	7 lbs.	10 lbs.	13 lbs.	16½ lbs.	21 lbs.	23½ lbs.	26½ lbs.	30 lbs.

JOINT RUNNERS

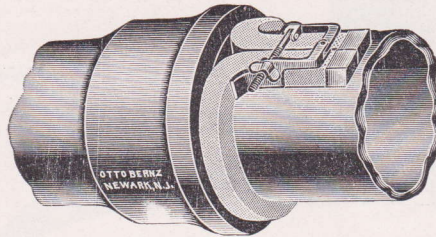
No. 109



The No. 1 and No. 2 are furnished with a $\frac{3}{4}$ " square asbestos packing which has one woven jacket. The No. 3 and No. 4 are furnished with a 1" square asbestos packing which has two woven jackets. All packing used has an asbestos core. Clamps are made of malleable iron.

Number.....	1	2	3	4
Size of pipe.....	2", 3", and 4"	4", 5", and 6"	6", 8", and 10"	10", 12", and 14"
Weight, each....	1 $\frac{1}{8}$ lbs.	1 $\frac{3}{8}$ lbs.	2 $\frac{3}{4}$ lbs.	3 $\frac{1}{4}$ lbs.

No. 110

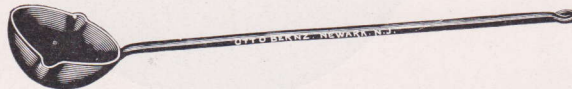


All of these joint runners are furnished with a $1\frac{1}{4}$ " square asbestos packing which has three woven jackets. All packing used has an asbestos core. Clamps are made of malleable iron.

Number.....	5	6	7	8	9	10	11	12	13
Size of pipe, inches...	8, 10, 12	10, 12, 14	16, 18, 20	24	30	36	40	42	48
Weight, each, lbs.....	4 $\frac{3}{4}$	5 $\frac{1}{4}$	6	6 $\frac{1}{2}$	7	9	9 $\frac{1}{2}$	10	10 $\frac{1}{2}$

REGULAR MELTING LADLES

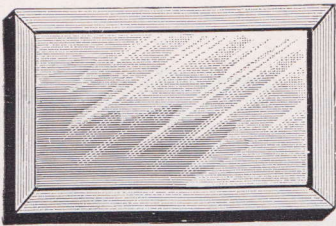
No. 111



Iron handles are welded to bowls. Bowls are wrought iron. Double lipped style always furnished, unless single lipped style is specified.

Outside diameter, in.	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	5	6	6 E.H.	7	8	9	10	12
Outside depth, in....	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2	2 $\frac{1}{2}$	2 $\frac{3}{4}$	2 $\frac{3}{4}$	3 $\frac{1}{4}$	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	6 $\frac{1}{4}$
Handle, inches.....	12	12	16	16	20	20	20	26	26	36	36	40
Capacity, lbs.....	1 $\frac{1}{4}$	2 $\frac{1}{4}$	3	4 $\frac{1}{4}$	10 $\frac{1}{4}$	14 $\frac{1}{4}$	14 $\frac{1}{4}$	21	27 $\frac{1}{2}$	40	50	130
Weight, per doz., lbs.	6	6 $\frac{1}{4}$	11	13	26	32	62	74	88	128	152	276

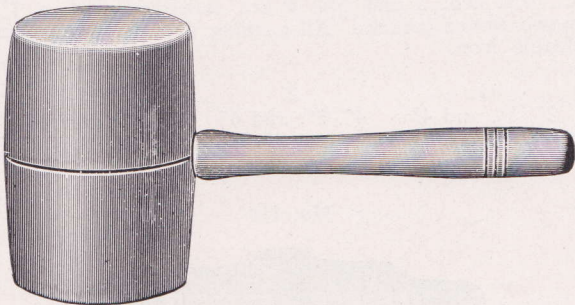
LOOKING GLASS
No. 113



Furnished with brass back. Measures 2½"x3¾"

Weight, per dozen 4 lbs.

MALLET
No. 114

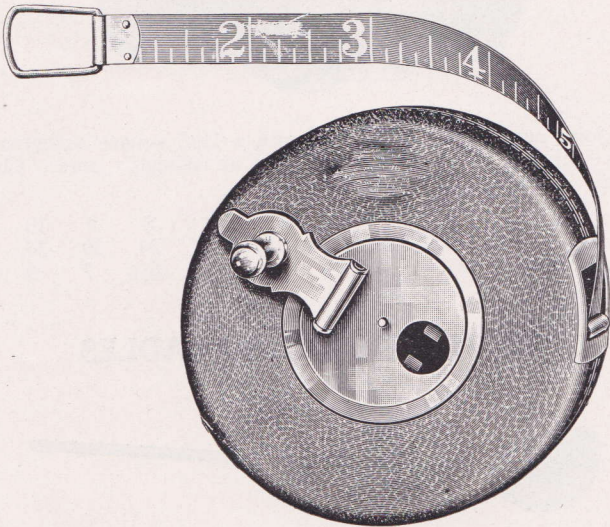


Made from dogwood

Measures 3" by 6"

Weight, per dozen 18 lbs.

MEASURING TAPES



No. 115

Made from linen with ass-skin case.

Size.....	25 feet	50 feet	75 feet	100 feet
Weight, per dozen.....	1⅞ lbs.	3¼ lbs.	4½ lbs.	5¼ lbs.

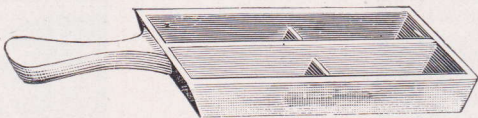
No. 116

Made from high grade steel with steel case covered with mottled black "auto leather" which will give long service.

Size	25 feet	50 feet	75 feet	100 feet
Weight, per dozen.....	4½ lbs.	8¼ lbs.	12 lbs.	14¼ lbs.

PIG LEAD MOULDS

No. 120

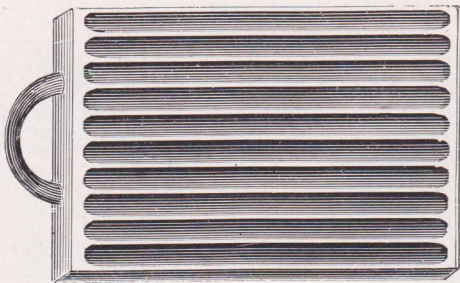


4 bar style
Made of gray iron.

Number.....	118	119	120
Style.....	1 bar	2 bar	4 bar
Capacity, per bar.....	19½ lbs.	5¾ lbs	2¼ lbs.
Weight, each.....	12½ lbs.	10½ lbs.	11¼ lbs.

STRAP SOLDER MOULDS

No. 121

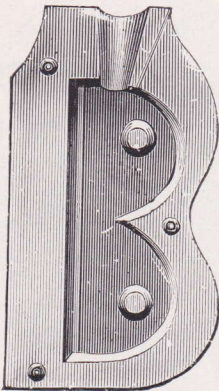
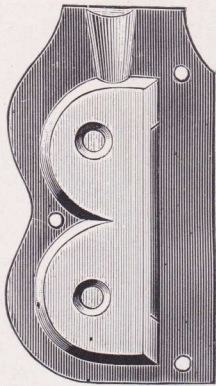


Made of gray iron.

Number.....	121	121
Style.....	10 bar	15 bar
Capacity, per bar.....	1 lb	1⅓ lbs
Weight, each.....	22½ lbs.	27½ lbs.

TACK MOULDS

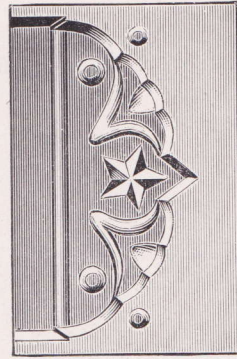
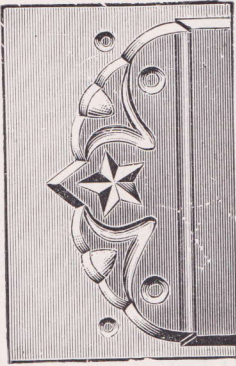
No. 122



Plain single style.
Made of cast brass. Weight, each 1¼ lbs.

TACK MOULDS

No. 123

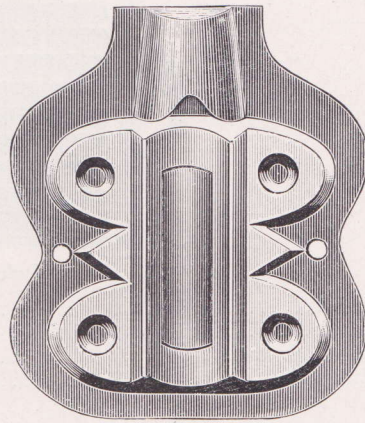
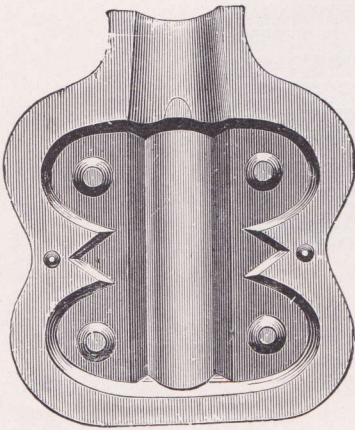


Made of cast brass.

Fancy single style.

Weight, each $1\frac{1}{4}$ lbs.

No. 124

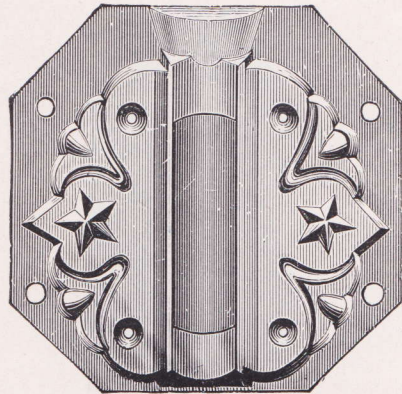
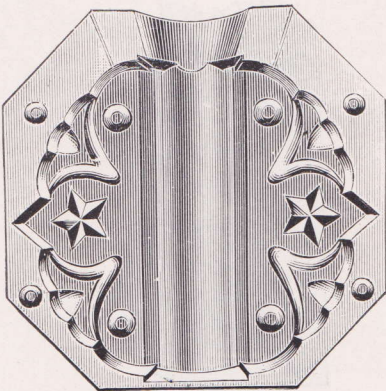


Made of cast brass.

Plain double style.

Weight, each $2\frac{1}{4}$ lbs.

No. 125



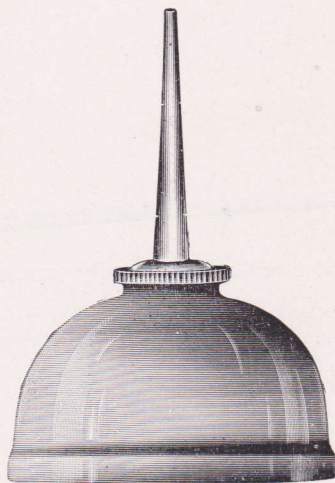
Made of cast brass.

Fancy double style

Weight, each 2 lbs.

OIL CANS

No. 126

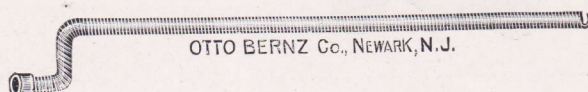


Made from drawn steel and heavily copper plated, inside and outside.

Number.....	12	13	13A	14A	14AA	15	15A
Diameter.....	2 3/4"	3 3/8"	3 3/8"	3 3/4"	3 3/4"	4 1/8"	4 1/8"
Nozzle.....	2 1/2"	3"	5"	3"	5"	3"	5"
Capacity.....	1/4 pt.	1/3 pt.	1/3 pt.	1/2 pt.	1/2 pt.	1 pt.	1 pt.
Weight, per dozen.....	2 1/2 lbs.	3 3/4 lbs.	4 lbs.	4 1/2 lbs.	5 lbs.	6 lbs.	6 1/2 lbs.

PLUMBERS' BEST FRIEND PIPE CLEANERS

No. 127



OTTO BERNZ Co., NEWARK, N.J.

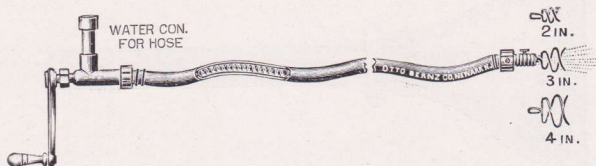
Made from flexible spiral steel spring, heavily jappanned.

Size.....	5 1/2 ft.	10 ft.	15 ft.	20 ft.	25 ft.
Weight, each.....	2 lbs.	3 1/2 lbs.	5 lbs.	8 lbs.	11 lbs.

We can also furnish this article in the larger sizes.

FLITCROFT PIPE CLEANERS

No. 128

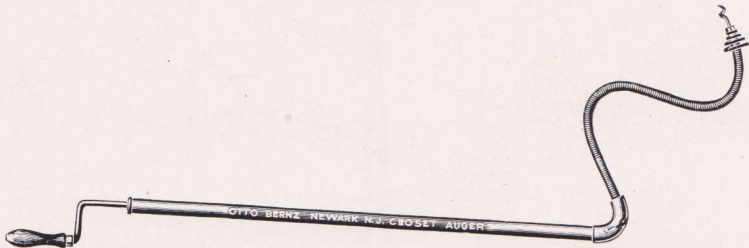


Made from flexible spiral steel spring, heavily jappanned.

Size.....	15 ft.	15 ft.	25 ft.	25 ft.	35 ft.	35 ft.
	with hose	without hose	with hose	without hose	with hose	without hose
Weight, each....	13 lbs.	10 1/2 lbs.	17 lbs.	13 lbs.	26 lbs.	20 lbs.

CLOSET AUGERS

No. 129

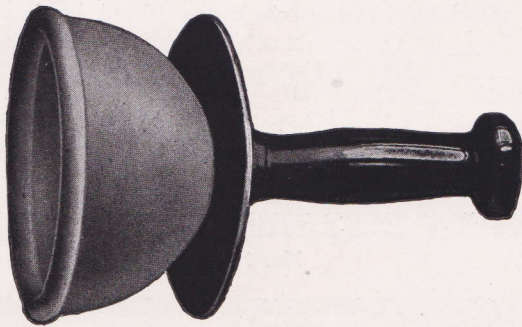


Made from flexible spiral steel spring, heavily japanned. Tube in which spring slides is brass.

Size.....	3 ft.	6 ft.	9 ft.
Weight, each.....	2¾ lbs.	3¾ lbs.	4¾ lbs.

FORCE CUPS

No. 130

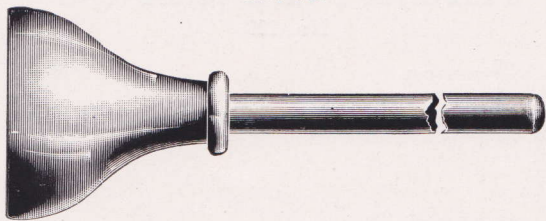


Number.....	1	2	3
Diameter.....	3¼"	3¾"	4½"
Weight, per dozen.....	4½ lbs.	5¼ lbs.	6 lbs.

Cups are made of a good grade of flexible rubber which will give satisfactory results.

PLUMBERS' FRIENDS

No. 131

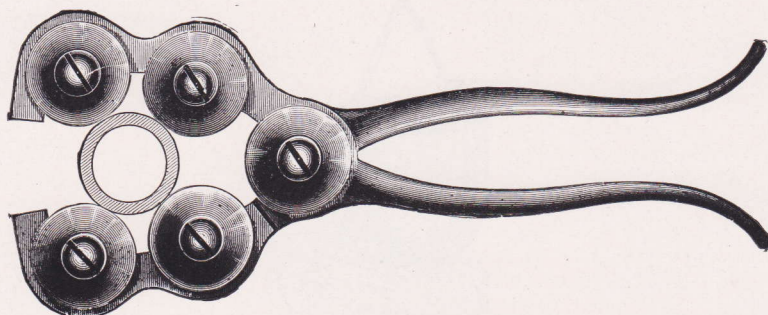


Made of a good grade of flexible rubber. Furnished regularly with 36" handles. Shorter handles can be furnished if so desired.

Size.....	4"	6"
Weight, per dozen.....	18 lbs.	20 lbs.

LEAD PIPE CUTTERS

No. 132



Handles and frame are malleable iron. Wheels are made of a good steel which will hold a cutting edge.

Finish..... Japanned
Weight, per dozen..... 11 lbs.

Nickel Plated
11 lbs.

PLUMB BOBS

No. 133



Made of gray iron.

Furnished in japanned finish.

Size.....
Weight, per dozen.....

Small
7½ lbs.

Large
15 lbs.

SOLDER OR METAL POTS

No. 134

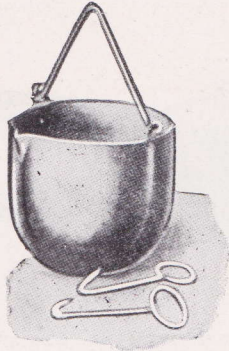


Made of good quality gray iron.

Diameter.....	4"	5"	6"	6"E.H.	7"	8"
Depth.....	3"	3¼"	3¾"	3⅞"	4½"	5"
Capacity.....	7 lbs.	13½ lbs.	18½ lbs.	23 lbs.	28 lbs.	46 lbs.
Weight, each.....	2½ lbs.	2¾ lbs.	4⅛ lbs.	7¼ lbs.	6½ lbs.	9 lbs.
Diameter.....	9"	10"	12"	13½"	16¾"	19"
Depth.....	6"	6¼"	6½"	7¼"	7"	9½"
Capacity.....	55 lbs.	92 lbs.	157 lbs.	166 lbs.	200 lbs.	325 lbs.
Weight, each.....	13½ lbs.	16 lbs.	28 lbs.	43½ lbs.	53 lbs.	68 lbs.

POURING POTS

No. 135



	Made from pressed steel.		Furnished with 2 hooks.		
Diameter.....	7"	8"	9"	10"	
Depth.....	5"	6"	6"	7"	
Capacity.....	50 lbs.	100 lbs.	125 lbs.	150 lbs.	
Weight, each.....	4 lbs.	5 lbs.	6 lbs.	12 lbs.	

POT HOOK

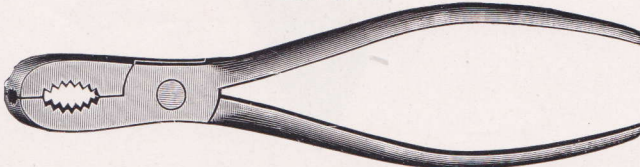
No. 136



Made from $\frac{5}{16}$ " iron rod. Weight, per dozen $1\frac{1}{2}$ lbs.

BURNER PLIERS

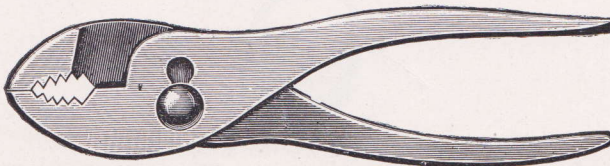
No. 137



	Made of forged steel. Furnished in full polished finish.		
Size.....	5"	6"	6"
Weight, per dozen.....	3 lbs.		4 lbs.

REGULAR COMBINATION PLIERS

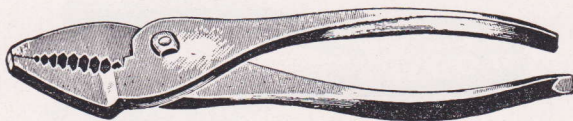
No. 138



	Made of forged steel.			
Size.....	5"	6"	6" with knurled handle	8"
Weight, per dozen.....	3 lbs.	6 lbs.	6 lbs.	8 lbs.
				12 lbs.
Can be furnished in nickel-plated and black finishes.				
Cheaper quality. 6" nickel-plated, with knurled handle.				
	Weight, per dozen 6 lbs.			

THIN BENT NOSE COMBINATION PLIERS

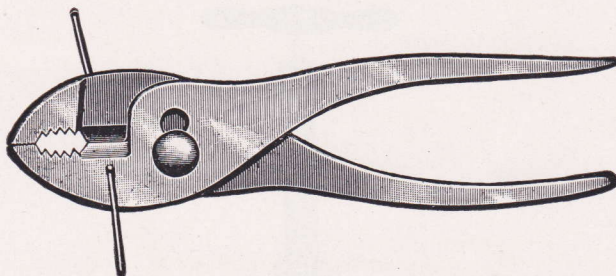
No. 140



Made of forged steel. Can be furnished in nickel-plated and black finishes.
 6" size only. Weight, per dozen 5¼ lbs.

SIDE CUTTING COMBINATION PLIERS

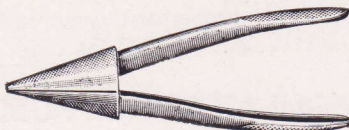
No. 141



Made of forged steel. Can be furnished in nickel-plated and black finishes.
 6" size only. Weight, per dozen 8½ lbs.

EXPANDING PLIER

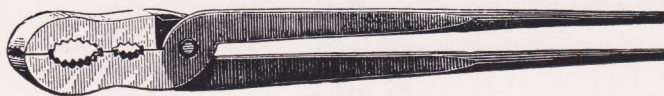
No. 142



Made of heavy sheet steel so as to give durable service.
 Weight, each 1½ lbs.

GAS PLIERS

No. 143



Made of forged steel. Furnished in full polished finish.

Size.....	7"	8"	9"	10"	12"	14"
Weight, per dozen.....	5¼ lbs.	8 lbs.	9 lbs.	11½ lbs.	16 lbs.	21 lbs.

REGULAR SIDE CUTTING PLIERS

No. 144



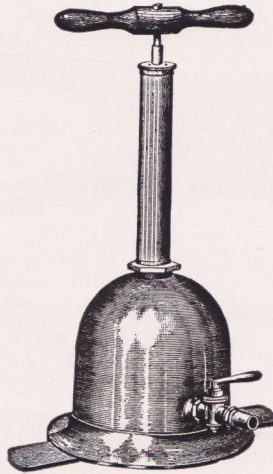
Forged from tool steel, with spring tempered handle.

Can be furnished in the standard and the competition qualities.

Size.....	4"	5"	6"	7"	8"
Weight, per dozen.....	2½ lbs.	3½ lbs.	5½ lbs.	7 lbs.	10 lbs.

GAS MAIN FORCE PUMP

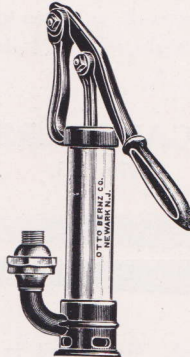
No. 145



Tank is made of heavy copper and pump cylinder is brass.
 Weight, each 14 lbs.

REGULAR FORCE PUMP

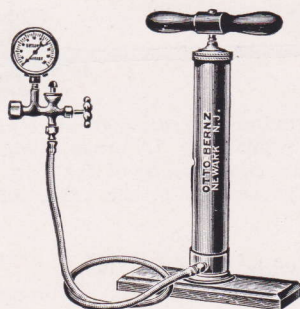
No. 146



Heavily constructed of brass tubing and gray iron.
 Weight, each 9½ lbs.

TESTING PUMP WITH AIR GAUGE, ETHER COCK AND HOSE

No. 147



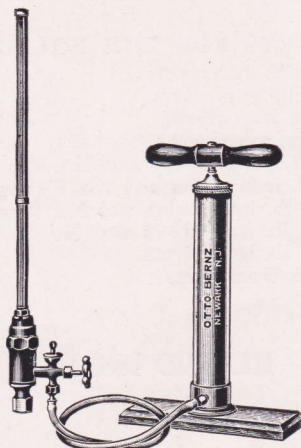
Testing pump is made of heavy brass tubing, and is fitted with a large wood handle. Air gauge has iron case with brass ring and is furnished with brass cover. Ether cock is made of cast brass.

Article	Outfit as shown above	Testing pump.	Air gauge	Ether cock	3 foot hose
Weight, each	6 lbs.	4½ lbs.	½ lb.	¾ lb.	¼ lb.

We can furnish air gauges with capacity from 20 pounds up.

TESTING PUMP WITH REGULAR OLD STYLE MERCURY COLUMN AND HOSE

No. 148



Testing pump is made of heavy brass tubing and is fitted with a large wood handle. Mercury column is fitted with a glass tube which is guarded by a brass shield. This shield is graduated for the convenience of the user. This style mercury column must be emptied after each job. No mercury furnished with this outfit.

Article	Outfit as shown above	Testing pump.	Regular old style mercury column with ether cock attached	3 foot hose
Weight, each	7 lbs.	4½ lbs.	2¾ lbs.	¼ lb.

NON-SPILLABLE MERCURY COLUMN

No. 149



This mercury column is fitted with a transparent celluloid tube which will not break as does the glass tube used on other style. A brass shield is placed around this celluloid tube, which is graduated for the convenience of the user. This style is always charged with mercury, therefore always ready for use. Mercury always furnished with this column.

	Testing pump with non-spillable mercury column and hose	Testing pump	Non-spillable mercury column with ether cock attached	3-foot hose
Article				
Weight, each	6¾ lbs.	4½ lbs.	2½ lbs.	¼ lb.

RIVET SETS AND HEADERS

No. 150



Made of extra cast steel.

Number.....	00 and 0	1 and 2	3 and 4	5 and 6	7 and 8
Weight, per dozen.....	10 lbs.	4½ lbs.	4¼ lbs.	2 lbs.	2 lbs.

ABOVE RIVET SETS FOR THE FOLLOWING RIVETS:

- No. 00 for 12 lb. iron rivets.
- No. 0 for 10 lb. iron rivets.
- No. 1 for 8 lb. iron rivets.
- No. 2 for 6 lb. iron rivets.
- No. 3 for 5 lb. iron rivets and No. 7 copper rivets.
- No. 4 for 3 lb. iron rivets and No. 8 copper rivets.
- No. 5 for 1¾ lb. iron rivets and No. 9 copper rivets.
- No. 6 for 1½ lb. iron rivets and No. 10 copper rivets.
- No. 7 for 1¼ lb. iron rivets.
- No. 8 for 1 lb. iron rivets.

ROUND IRONS

No. 151

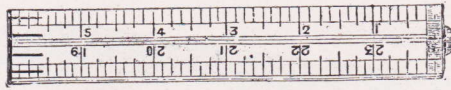


Heads and handles are made of a good grade of iron and are welded securely.

Size.....	Small	Medium	Large
Weight, per dozen.....	18 lbs.	21 lbs.	28 lbs.

RULES

No. 152



Two foot folding.

Made of boxwood.

Number.....
 Style.....
 Weight, per dozen.....

152
 Plain
 1 1/4 lbs.

153
 Brass bound
 2 1/2 lbs.

SAND PLUGS

No. 154



No. 155



Made of dogwood.

Assorted sizes and shapes.

Weights depend on sizes and shapes ordered. Can be furnished on application.

COMPASS SAWS

No. 156



Made from a special steel which is carefully heat-treated and tempered so it will hold a good sharp cutting edge.

Size.....
 Weight, per dozen.....

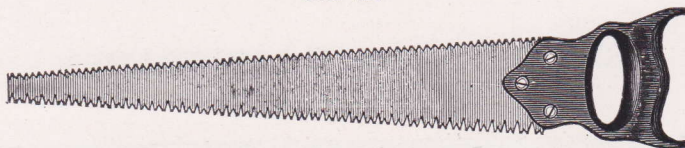
10"
 3 1/2 lbs.

12"
 5 lbs.

14"
 6 lbs.

DOUBLE EDGE SAWS

No. 157



For wood and metal.

Made from a special steel which is carefully heat-treated and tempered so it will hold a good sharp cutting edge.

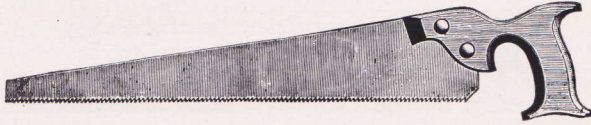
Size.....
 Weight, per dozen.....

12"
 10 lbs.

14"
 11 lbs.

SINGLE EDGE SAWS

No. 158



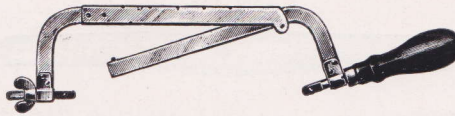
For wood.

Made from a special steel which is carefully heat-treated and tempered so it will hold a good sharp cutting edge.

Size.....	12"	14"
Weight, per dozen.....	9 lbs.	10½ lbs

ADJUSTABLE HACK SAW FRAME

No. 159

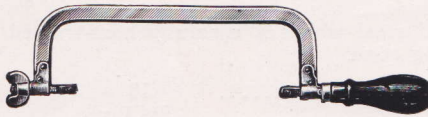


Made of cold drawn steel, heavily nickel plated. Handle furnished in mahogany finish. Furnished without blades unless otherwise ordered.

For 8", 9", 10" and 12" blades. Weight, per dozen 12 lbs.

SOLID HACK SAW FRAME

No. 160



Made of cold drawn steel, heavily nickel plated. Handle furnished in mahogany finish. Furnished without blades unless ordered otherwise.

For 8" blade. Weight, per dozen 9 lbs.

BLADES FOR HACK SAW FRAMES

No. 161



Made of carbon, and tungsten steel.

Size.....	8"	9"	10"	11"	12"
Weight, per gross.....	4½ lbs.	4¾ lbs.	5¾ lbs.	5¾ lbs.	6¼ lbs.

SCREW DRIVERS

No. 162



Blades are made of good grade steel and are fastened into handle so they cannot turn. Fitted with long steel ferrule, and wood handle in rubberized finish.

Size.....	2"	3"	4"	5"	6"	7"	8"	10"	12"	14"
Weight, per dozen	1½ lbs.	2¼ lbs.	3 lbs.	3½ lbs.	4 lbs.	5 lbs.	6 lbs.	7 lbs.	8 lbs.	9 lbs.

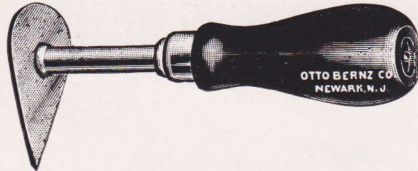
SCREW DRIVER HANDLES

No. 163

Size.....	For 2" to 5"	For 6" to 8"	For 10" to 14"
Length.....	5"	6"	7"
Weight, per dozen.....	1½ lbs	1¾ lbs.	2 lbs.

REGULAR SHAVE HOOKS

No. 164



Oval style.

Blades are made of good steel which will hold a sharp edge. Shanks are made of malleable iron. Wood handles are furnished in black stained finish.

No. 165—HALF OVAL STYLE

No. 166—TRIANGULAR STYLE

Weight, per dozen 2¼ lbs.

BLADES FOR REGULAR SHAVE HOOKS

No. 167



Oval

No. 168



Half oval

No. 169

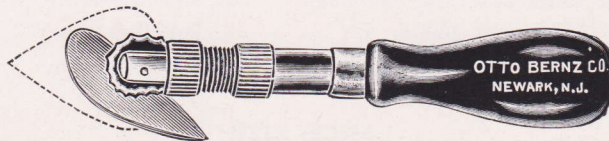


Triangular

Weight, per dozen ½ lb.

ADJUSTABLE SHAVE HOOK

No. 170



Blade can be used in any angle. This tool can also be used, in many cases, as a tap borer, and for cutting and marking when blade is turned in line with handle. Blade is made of good steel, which will hold a sharp edge. Wood handle is in black stained finish.

Weight, per dozen 4 lbs.

SIDE EDGERS

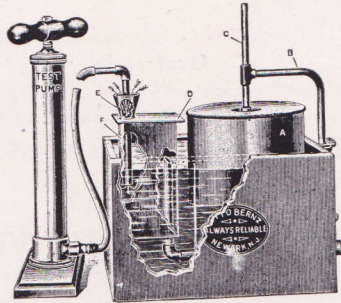
No. 171



Kind.....	Dogwood	Boxwood	Lignum Vitae
Weight, per dozen.....	3½ lbs.	4 lbs.	6 lbs.

SMOKE TESTING MACHINES

No. 172



Interior is made entirely of copper. Box is of wood and is neatly painted. The testing pump is made of heavy brass tubing and is fitted with a large wood handle.

SMALL SIZE (Box 13½"x9"x13½")

Article.....	Outfit as shown above, also large hose and couplings	Machine with pump only as shown above	Machine only
Weight, each....	32 lbs.	26½ lbs.	20½ lbs.

LARGE SIZE

Article.....	Outfit as shown above, also large hose and couplings	Machine with pump only as shown above	Machine only
Weight, each....	42½ lbs.	37 lbs.	31 lbs.

SOIL BRUSHES

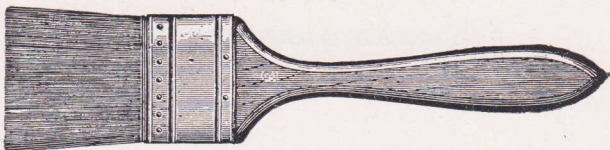
No. 173



Size 5/8" round

Weight, per dozen 1/2 lb.

No. 174



Size 1" flat.

Weight, per dozen 1/2 lb.

SOIL CUPS

No. 176



Made from sheet copper.

Number.....
Style.....
Weight, per dozen.....

175
With handle
1 1/2 lbs.

176
Without handle
1 1/2 lbs.

PREPARED SOIL

No. 177



Put up in tin cans with tight covers.

Size.....
Weight, per dozen.....

Pint can
18 lbs.

Quart can
30 lbs.

SOLDERING COPPERS

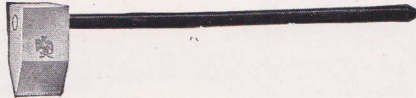
Pointed Style (Two Prong)
 No. 178



Swivel Hatchet Style
 No. 179



Rigid Hatchet Style
 No. 180



Style.....	Pointed	Swivel hatchet	Rigid hatchet
Price, per lb., net.....	Base	\$.10 extra	\$.05 extra

Following extras apply to all styles:

Weight to pair.....	3 lbs and heavier	2½ lbs.	2 lbs.	1½ lbs.	1 lb.
Price, per lb., net.....	Base	\$.01	\$.02	\$.03	\$.06

SOLDERING COPPER HANDLES

No. 181

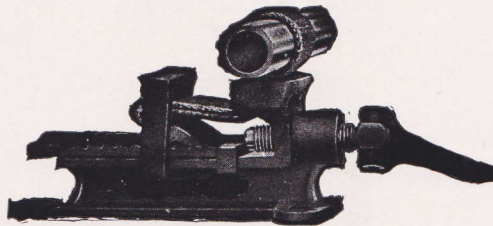


Regular wood style with steel ferrule.

Weight, per dozen 1½ lbs.

STRAP PIPE VISE

No. 182



Made entirely of malleable iron. The straps are of linen, therefore, will give long service.

For nickel plated and brass pipe and tubing, measuring ⅛" to 2" in diameter.
 Weight, each 6½ lbs.

STRAP FOR PIPE VISE

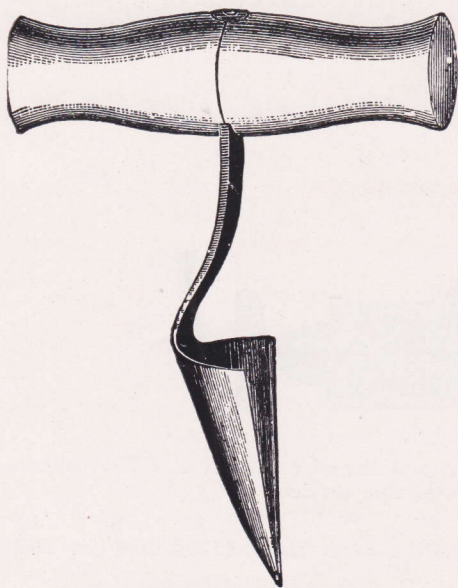
No. 183

Strap made of linen, therefore, will give long service.

Weight, per dozen 2 lbs.

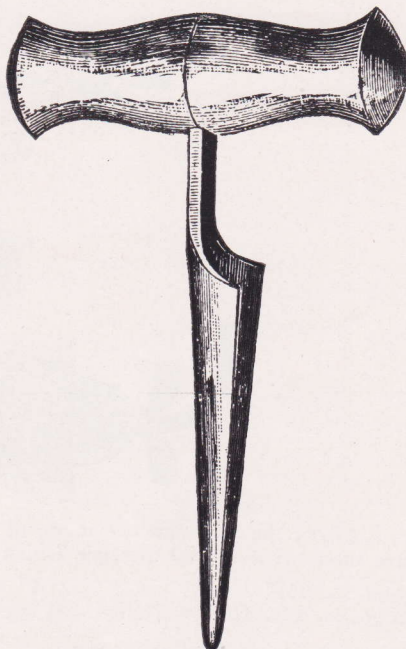
TAP BORERS

No. 184



New York Style

No. 185



Philadelphia Style

Made of crucible annealed spring steel and fitted with varnished wood handle.

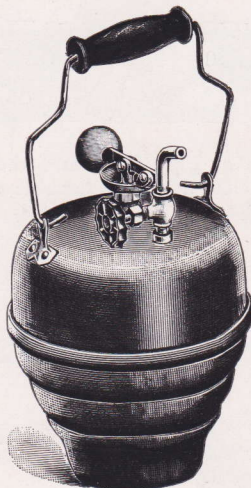
Style.....
 Weight, per dozen.....

New York
 3 lbs.

Philadelphia
 4 lbs.

THAWING STEAMER

No. 186

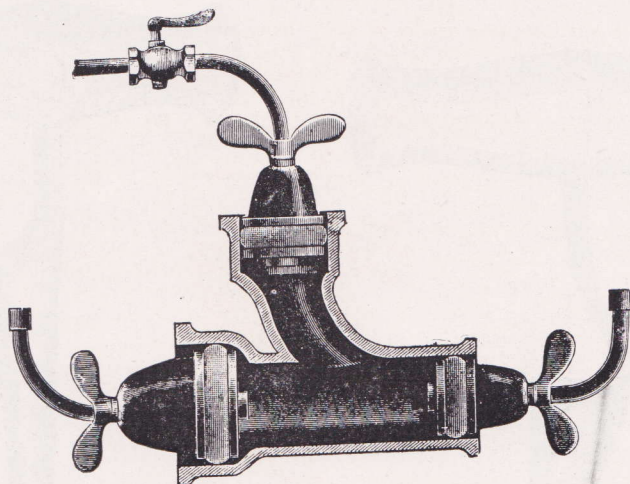


Reservoir is made of copper. Safety valve is made of brass and has a lead ball which raises automatically at 50 pounds pressure. This article can be used with the ordinary plumber's furnace.

Weight, each 3½ lbs.

WING NUT TESTING PLUGS

No. 187

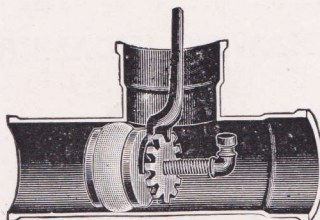


All of the castings are made of grey iron, and the pipes are steel. The rubbers are made of a special mixture which will give durable service.

Size.....	1½"	2"	3"	4"	5"	6"	7"	8"	9"	10"	12"
Wgt., ea.	1 lb.	1½ lbs.	2½ lbs.	3¼ lbs.	4¾ lbs.	6¼ lbs.	8 lbs.	11 lbs.	15 lbs.	20¾ lbs.	26 lbs.

RATCHET TESTING PLUGS

No. 188



All of the castings are made of grey iron, and the pipes are steel. The rubbers are made of a special mixture which will give durable service.

Wrench is not included with these plugs, therefore, must be ordered separately.

Size.....	2"	3"	4"	5"	6"	7"	8"	9"	10"
Weight, each.....	1¼ lbs.	2 lbs.	3 lbs.	3½ lbs.	5 lbs.	7¾ lbs.	11 lbs.	14½ lbs.	19½ lbs.

WRENCH FOR RATCHET TESTING PLUGS

No. 189

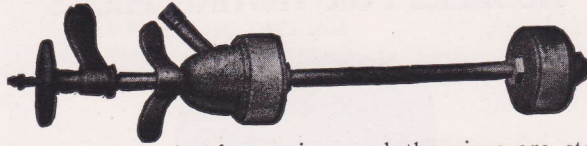


Made of grey iron.

Weight, each 1 lb.

STRAIGHT DOUBLE TESTING PLUGS

No. 190

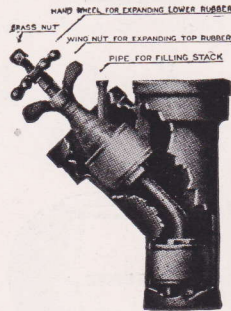


All of the castings are made of grey iron and the pipes are steel. The rubbers are made of a special mixture which will give durable service.

Size.....	2"	3"	4"	5"	6"	8"	10"	12"
Weight, each.....	2½ lbs.	7 lbs.	10 lbs.	13½ lbs.	17¼ lbs.	27½ lbs.	20¼ lbs.	26 lbs.

Y BRANCH TESTING PLUGS

No. 191

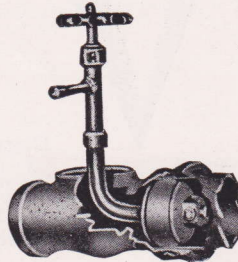


All of the castings are made of grey iron and the pipes are steel. The rubbers are made of a special mixture which will give durable service.

Size.....	2"	3"	4"	5"	6"	8"	10"
Weight, each.....	3¼ lbs.	5½ lbs.	8½ lbs.	13 lbs.	17 lbs.	27 lbs.	53½ lbs.

TEE TESTING PLUGS

No. 192

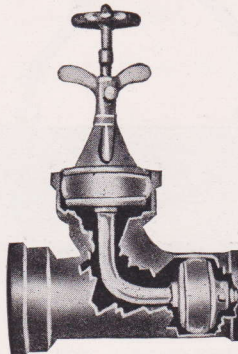


All of the castings are made of grey iron and the pipes are steel. The rubbers are made of a special mixture which will give durable service.

Size.....	2"	3"	4"	5"	6"	8"	10"
Weight, each.....	4 lbs.	4½ lbs.	6¼ lbs.	11 lbs.	12½ lbs.	17½ lbs.	30 lbs.

SANITARY TEE TESTING PLUGS

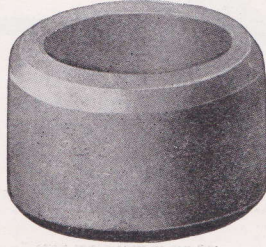
No. 193



All of the castings are made of grey iron and the pipes are steel. The rubbers are made of a special mixture which will give durable service.

Size.....	3"	4"	5"	6"	7"	8"	9"	10"
Weight, each.....	7 lbs.	12 lbs.	15 lbs.	18¼ lbs.	25 lbs.	30¼ lbs.	40 lbs.	50 lbs.

RUBBERS FOR TESTING PLUGS
No. 194



Made of a special mixture of rubber so as to give durable service for use with testing plugs.

Size.....	2"	3"	4"	5"	6"	7"	8"	9"	10"	12"
Weight, each....	1½ oz.	3½ oz.	6¼ oz.	8 oz.	11½ oz.	19 oz.	24 oz.	29 oz.	31 oz.	45 oz.

TURN PINS
No. 195



Stock sizes as follows:		Dogwood	Boxwood	Lignum Vitae
No. 1—2"	to 2¼"—Weight, per dozen.....	3 lbs.	3¼ lbs.	4 lbs.
No. 2—2¼"	to 2¾"—Weight, per dozen.....	3¾ lbs.	4 lbs.	5½ lbs.
No. 3—2¾"	to 3"—Weight, per dozen.....	4½ lbs.	4¾ lbs.	7½ lbs.

Larger sizes made to order

ELECTRICIANS' TOOL BAGS
No. 196

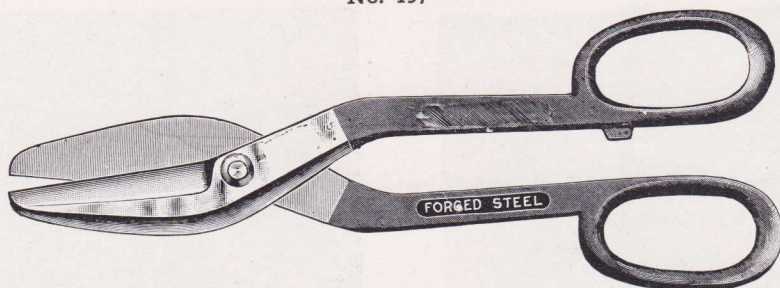


Made of heavy russet grain leather. Furnished with leather shoulder strap and pad. Each bag has an inside pocket for small tools.

Size	16"x6½"x8"	18"x7"x8"	20"x7"x9"	22"x7"x10"
Weight, each	3 lbs.	3½ lbs.	4 lbs.	4½ lbs.

TINNERS' STRAIGHT SNIPS

No. 197



Bar tool steel laid blades. Handles are of forged steel and in blue finish.

Number.....	6½	7	8	9	10	11	12
Length of cut.....	4½"	4"	3½"	3"	2½"	2¼"	2"
Length, overall	15½"	14"	13"	12"	11"	9"	8"
Weight, each.....	42 lbs.	37½ lbs.	30 lbs.	24 lbs.	18 lbs.	9 lbs.	6 lbs.

TINNERS' CIRCULAR SNIPS

No. 198

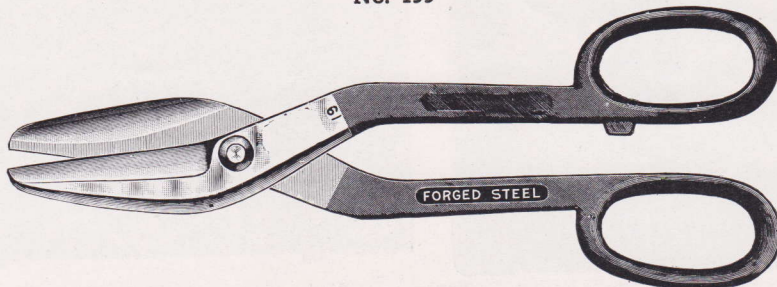


Bar tool steel laid blades. Handles are of forged steel and in blue finish.

Number.....	6½	7	8	9	10	11	12
Length of cut.....	4½"	4"	3½"	3"	2½"	2¼"	2"
Length, overall	15½"	14"	13"	12"	11"	9"	8"
Weight, each.....	45 lbs.	36 lbs.	27 lbs.	24 lbs.	18 lbs.	9 lbs.	6 lbs.

TINNERS' COMBINATION SNIPS

No. 199

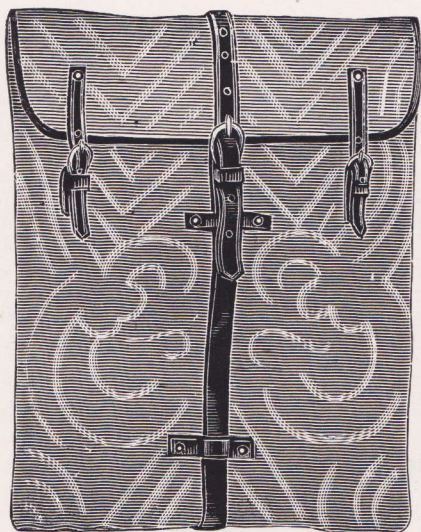


Bar tool steel laid blades. Handles are of forged steel and in blue finish.
 This style for straight, circular, and irregular shapes.

Number.....	17	18	19	110
Length of cut.....	4"	3½"	3"	2½"
Length, overall	14"	13"	12"	11"
Weight, each.....	33 lbs.	30 lbs.	21 lbs.	18 lbs.

PLUMBERS' TOOL BAGS

No. 200



Made of carpet with small leather binding. Interior is lined and has a pocket. Fitted with leather strap which encircles bag, and two smaller straps.

Number.....

Size.....

Weight, each.....

No. 201



Made of carpet with small leather binding. Bottom is reinforced with leather. Interior is lined and has a pocket. Fitted with leather strap which encircles bag, and two smaller straps.

200

22"x18"

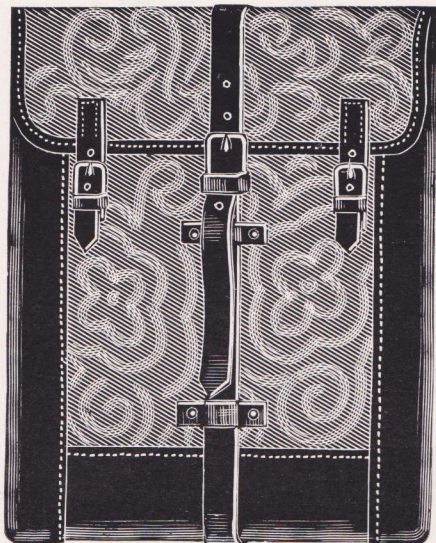
2¼ lbs.

201

22"x18"

2½ lbs.

No. 202



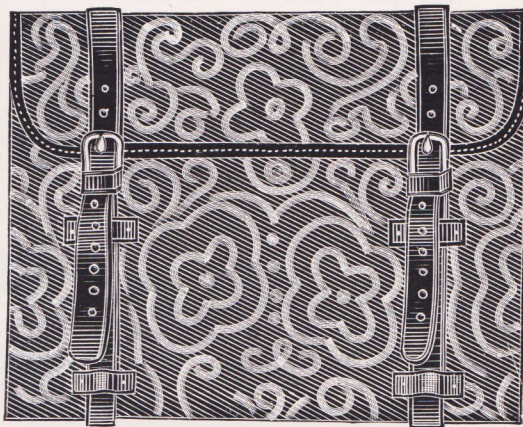
Made of carpet with small leather binding. Sides and bottom are reinforced with leather. Interior is lined and has a pocket. Fitted with leather strap which encircles bag, and two smaller straps.

Number.....

Size.....

Weight, each.....

No. 203



Made of carpet with small leather binding. Interior is lined and has a pocket. Fitted with two straps which encircle bag.

202

22"x18"

2¾ lbs

203

16"x25"

2½ lbs

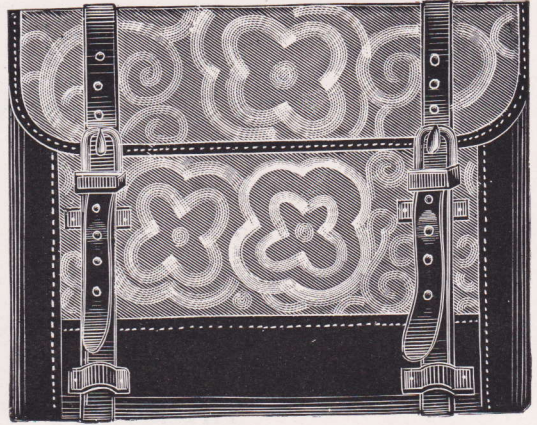
PLUMBERS' TOOL BAGS

No. 204



Made of carpet with small leather binding. Bottom is reinforced with leather. Interior is lined and has a pocket. Fitted with two straps which encircle bag.

No. 205



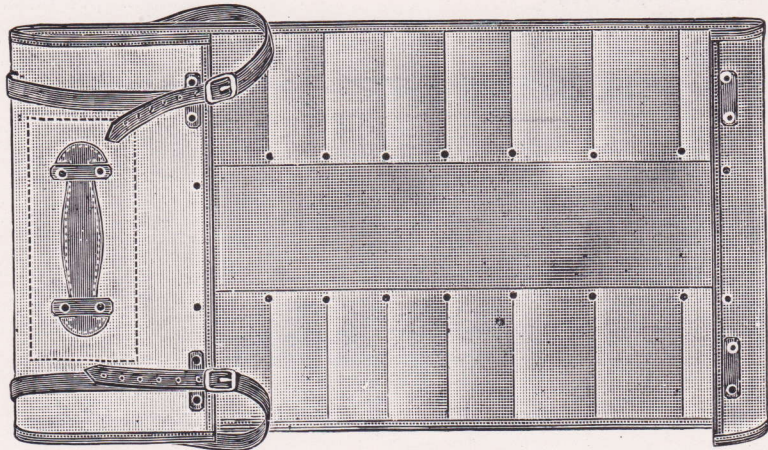
Made of carpet with small leather binding. Sides and bottom are reinforced with leather. Interior is lined and has a pocket. Fitted with two straps which encircle bag.

NO. 206 SAME STYLE AS NO. 201, BUT MADE ENTIRELY OF BROWN LEATHER.

Number.....	204	205	206
Size.....	16"x25"	16"x25"	16"x25"
Weight, each.....	2¾ lbs.	3 lbs.	2¼ lbs

PLUMBERS' TOOL ROLL

No. 207



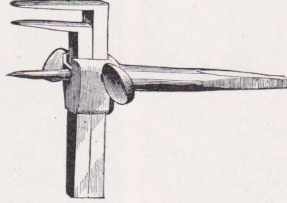
Made of 18 oz. white canvas. Has thirty pockets which are riveted and sewed. Edges are bound with leather binding. Furnished with two leather straps and leather handle for carrying purposes.

Size 56" x 24".

Weight, each 3 lbs.

REGULAR WASHER CUTTER

No. 208



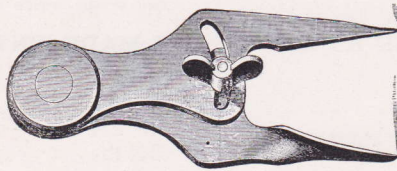
Shank is made of malleable iron and cutters are made of good tool steel.

Will cut washers from $\frac{1}{2}$ " to 5" in diameter.

Weight, per dozen $5\frac{1}{4}$ lbs.

HAGGERTY WASHER CUTTER

No. 209



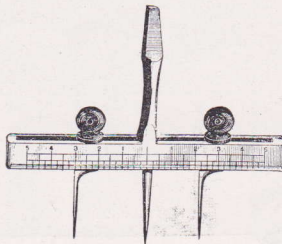
Made of steel, heavily nickel plated.

Will cut washers up to $1\frac{3}{4}$ ".

Weight, per dozen $2\frac{1}{4}$ lbs.

REGISTERING WASHER CUTTERS

No. 210



Shanks are made of malleable iron and cutters are made of good tool steel.

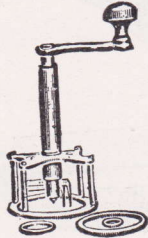
Size.....
 Capacity.....
 Weight, per dozen.....

Small
 $\frac{1}{2}$ " to 4" incl.
 $5\frac{1}{4}$ lbs.

Large
 1" to 5" incl.
 $5\frac{3}{4}$ lbs.

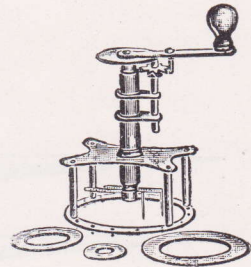
ROSE WASHER CUTTERS

No. 211



No. 212 same as No. 211, but in oxidized copper finish.

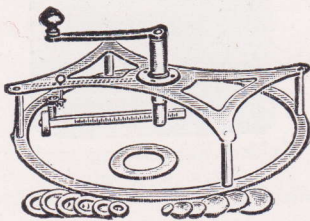
No. 213



No. 214 same style as No. 213, but larger capacity.

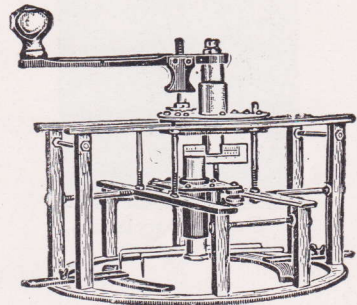
Number.....	211	212	213	214
Capacity.....	$\frac{3}{8}$ " to 2"	$\frac{3}{8}$ " to 2"	$\frac{3}{4}$ " to 4½"	1" to 10"
Weight, each	5½ oz.	5½ oz.	1¾ lbs.	7½ lbs.

No. 215



No. 216 same style as No. 215, but larger capacity.

No. 217



No. 218 same style as No. 217, but larger capacity.

No. 217 and No. 218 can also cut oval washers.

Number.....	215	216	217	218
Capacity.....	4½" to 21"	6" to 36"	1" to 10"	4" to 21"
Weight, each.....	15½ lbs.	33 lbs.	12½ lbs.	32 lbs.

The frames of all of the washer cutters shown above are made from strip steel suitable for the purpose intended. All of the cutters are made of a good tool steel.

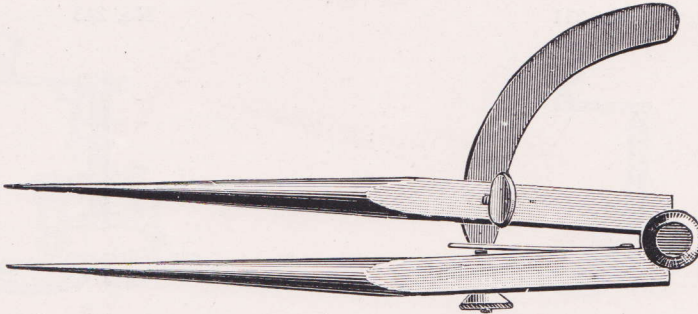
GLASS CUTTER ATTACHMENTS FOR ROSE WASHER CUTTERS

No. 219

Size.....	For No. 213	For No. 214	For No. 215	For No. 216	For No. 217	For No. 218
Weight, each	1 oz.	2½ oz.	½ oz.	½ oz.	2½ oz.	11 oz.

WING DIVIDERS

No. 220

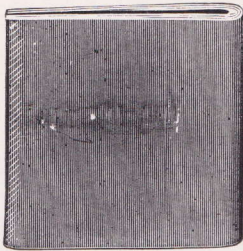


The wing is made of the best iron wire, bent and flattened by machinery. Washers are of brass. The arms are made of tool steel and the points are carefully hardened. The joint is firm which assures adjustments.

Size.....	5"	6"	7"	8"	9"	10"	12"	15"	18"	24"
Weight, per dozen, lbs.	2 $\frac{5}{8}$	3	3 $\frac{3}{8}$	4	5 $\frac{3}{4}$	6 $\frac{3}{4}$	9	19	20 $\frac{1}{2}$	25

MOLESKIN WIPING CLOTHS

No. 221



Regular style.
Made in 6 ply.

No. 222



Folded like ticking style.
Made in 8 ply.

Made of good quality moleskin.

Size.....	2"x2"	2 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3"x3"	3 $\frac{1}{2}$ "x3 $\frac{1}{2}$ "	4"x4"
No. 221—Weight, per dozen.....	3 oz.	4 oz.	6 oz.	8 oz.	10 oz.
No. 222—Weight, per dozen.....	4 oz.	6 oz.	8 oz.	10 oz.	12 oz.

Special sizes made to order.

TICKING WIPING CLOTHS

No. 223



Regular ticking.
Made in 16 ply.

No. 224



Herringbone ticking, narrow or wide stripe. Made in 16 ply.

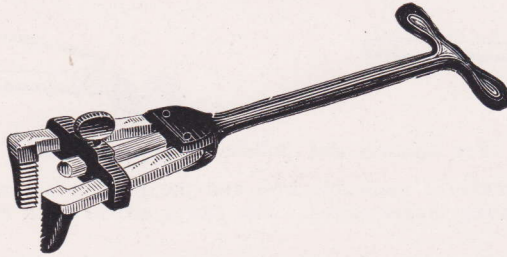
Made of good quality ticking

Size.....	2"x2"	2 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3"x3"	3 $\frac{1}{2}$ "x3 $\frac{1}{2}$ "	4"x4"
Weight, per dozen.....	6 oz.	10 oz.	13 oz.	18 oz.	22 oz.

Special sizes made to order.

BUZZELL BASIN WRENCH

No. 225



Entire tool is made of malleable iron.

Weight, per dozen 18 lbs.

RILEY BASIN WRENCH

No. 226

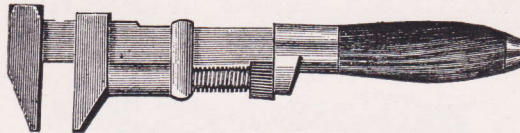


Made entirely of malleable iron.

Weight, per dozen 15 lbs.

MONKEY WRENCHES

No. 227



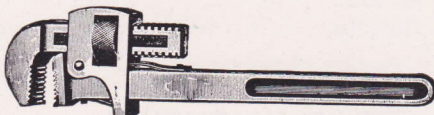
Made entirely of malleable iron with the exception of the screw which is turned from cold rolled steel. The handle is made from hardwood which has two coats of varnish.

Size.....	6"	8"	10"	12"	15"
Weight, per dozen.....	9 lbs.	16 lbs.	24 lbs.	30 lbs.	42 lbs.

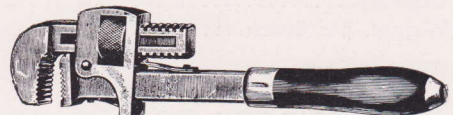
STILLSON WRENCHES

No. 228

No. 229



With steel handle.
6" to 14" inclusive.



With wood handle.
6" to 48" inclusive.

Size.....	6"	8"	10"	12"	14"	18"	24"	36"	48"
Weight, each, lbs. . . .	4	9	17	25	35	52	93	188	320

The jaw and bar are made of drop forged tool steel with teeth milled and hardened. The frame is malleable iron. The adjusting nut, which is made of cold rolled steel, is knurled and hardened.

REGULAR STRAP WRENCHES

No. 230



For smooth and polished pipe and tubing.

The heads are made of malleable iron and the handles are made of steel tubing. Complete tool is heavily nickel plated. The straps are of linen and will give durable service.

Right hand cut shows wrench with strap in position for use on medium or heavy weight tubing. Left hand cut shows it for use on light weight.

Size.....	12"	18"
Capacity.....	$\frac{1}{8}$ " to 2"	1" to 5"
Weight, per dozen.....	18 lbs.	33 lbs.

STRAPS FOR REGULAR STRAP WRENCHES

No. 231

Straps are made of linen, therefore, will give long service.

Size.....	For 12" wrenches	For 18" wrenches
Weight, per dozen.....	1 lb.	3 lbs.

WARNOCK STRAP WRENCHES

No. 232



For smooth and polished pipe and tubing.

The shackles are made from drop forgings and the handles are malleable iron. The straps are of linen and will give durable service.

Size.....	12"	18"
Capacity.....	$\frac{1}{8}$ " to 2"	1" to 5"
Weight, per dozen.....	16 $\frac{1}{2}$ lbs.	42 $\frac{3}{4}$ lbs.

STRAPS FOR WARNOCK STRAP WRENCHES

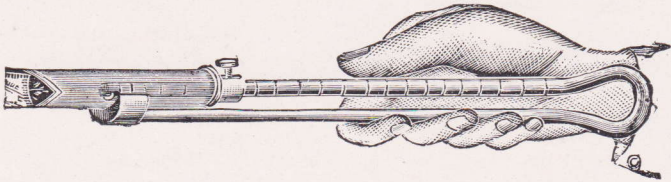
No. 233

Straps are made of linen, therefore, will give long service.

Size.....	For 12" wrenches	For 18" wrenches
Weight, per dozen.....	1 lb.	3 lbs.

GAUGE GLASS CUTTER

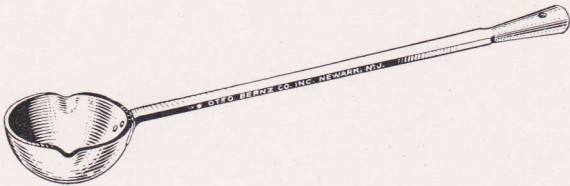
No. 234



Made of spring steel, heavily nickel-plated. Cutting wheel is Jessup steel.
Weight, per dozen 3 lbs.

SOCKET HANDLE MELTING LADLES

No. 235

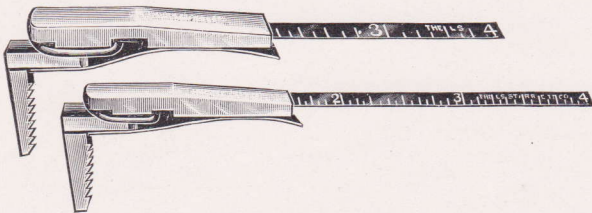


Iron handles are welded to bowls. Bowls are wrought iron. Double lipped style always furnished unless single lipped style is specified.

Outside diameter.....	6"	7"	8"	9"	10"	12"
Outside depth.....	3½"	3¾"	4¼"	4½"	5"	6¼"
Handle, including socket....	21"	24"	26"	30"	36"	40"
Capacity.....	15 lbs.	26 lbs.	45 lbs.	57 lbs.	80 lbs.	130 lbs.
Weight, per dozen.....	72 lbs.	90 lbs.	126 lbs.	162 lbs.	192 lbs.	276 lbs.

HOOK FOR MEASURING TAPES

No. 236



Made of cast bronze, heavily nickel plated.
Made in ¼" and ⅜" sizes. Weight, per dozen 12 oz.

